

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 15:58:47 ; Search time 124 Seconds
(without alignments)

40.654 Million cell updates/sec

Title: US-09-825-517A-151

Perfect score: 98

Sequence: 1 DWVCEFLKQWACNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/FCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	98	100.0	16	11	US-09-825-517A-49
2	98	100.0	16	11	US-09-825-517A-151
3	93	94.9	16	11	US-09-825-517A-125
4	93	94.9	16	11	US-09-825-517A-142
5	92	93.9	16	11	US-09-825-517A-112
6	92	93.9	16	11	US-09-825-517A-122
7	92	93.9	16	11	US-09-825-517A-140
8	90	91.8	16	11	US-09-825-517A-54
9	90	91.8	16	11	US-09-825-517A-138
10	90	91.8	16	11	US-09-825-517A-143
11	84	85.7	16	11	US-09-825-517A-80
12	84	85.7	16	11	US-09-825-517A-147
13	83	84.7	16	11	US-09-825-517A-75
14	83	84.7	16	11	US-09-825-517A-76
15	83	84.7	16	11	US-09-825-517A-135

83	84.7	16	11	US-09-825-517A-141	Sequence 141, App
81	82.7	16	11	US-09-825-517A-104	Sequence 104, App
81	82.7	16	11	US-09-825-517A-137	Sequence 137, App
80	81.6	16	11	US-09-825-517A-67	Sequence 67, App1
80	81.6	16	11	US-09-825-517A-101	Sequence 101, App
80	81.6	16	11	US-09-825-517A-106	Sequence 106, App
79	80.6	16	11	US-09-825-517A-86	Sequence 86, App1
79	80.6	16	11	US-09-825-517A-107	Sequence 107, App
79	80.6	16	11	US-09-825-517A-118	Sequence 118, App
79	80.6	16	11	US-09-825-517A-126	Sequence 126, App
79	80.6	16	11	US-09-825-517A-127	Sequence 127, App
79	80.6	16	11	US-09-825-517A-150	Sequence 150, App
78	79.6	16	11	US-09-825-517A-59	Sequence 59, App1
78	79.6	16	11	US-09-825-517A-139	Sequence 139, App
77	78.6	16	11	US-09-825-517A-78	Sequence 78, App1
77	78.6	16	11	US-09-825-517A-105	Sequence 105, App
77	78.6	16	11	US-09-825-517A-113	Sequence 113, App
76	77.6	16	11	US-09-825-517A-65	Sequence 65, App1
76	77.6	16	11	US-09-825-517A-82	Sequence 82, App1
76	77.6	16	11	US-09-825-517A-114	Sequence 114, App
76	77.6	16	11	US-09-825-517A-116	Sequence 116, App
76	77.6	16	11	US-09-825-517A-148	Sequence 148, App
75	76.5	16	11	US-09-825-517A-133	Sequence 133, App
75	76.5	16	11	US-09-825-517A-146	Sequence 146, App
74	75.5	16	11	US-09-825-517A-100	Sequence 100, App
74	75.5	16	11	US-09-825-517A-115	Sequence 115, App
74	75.5	16	11	US-09-825-517A-130	Sequence 130, App
74	75.5	16	11	US-09-825-517A-144	Sequence 144, App
72	73.5	16	11	US-09-825-517A-56	Sequence 56, App1
72	73.5	16	11	US-09-825-517A-88	Sequence 88, App1

ALIGNMENTS

RESULT 1

US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PPT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match 100.0%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKQWACNVL 16

Db 1 DWVCEFLKQWACNVL 16

RESULT 2

US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match 100.0%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.9e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
|||||:|||||
Db 1 DWVCEFLKQWACNVL 16

RESULT 3
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match 94.9%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
|||||:|||||
Db 1 DWVCEFLKQWACNVL 16

RESULT 4
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match 94.9%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.4e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
|||||:|||||
Db 1 DWVCEFLKQWACNVL 16

RESULT 5
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 93.9%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
|||||:|||||
Db 1 DWVCEFLKQWACNVL 16

RESULT 6
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122
Query Match          93.9%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140
Query Match          93.9%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 6.2e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
```

```
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 9
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 10
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 11
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144
Query Match          91.8%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-06;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16
```

```
RESULT 11
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      85.7%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.6e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFIKNQWMCNVL 16

RESULT 12
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      85.7%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.6e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFIKNQWMCNVL 16

RESULT 13
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

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; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match      84.7%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFFKQWFCNVL 16

RESULT 14
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      84.7%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWACNVL 16
DB 1 DWVCEFFKQWFCNVL 16

RESULT 15
US-09-825-517A-135
; Sequence 135, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

Query Match      84.7%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      1 DWVCEFLKQWACNVL 16
      ||||| :|||
Db      1 DWVCEFDKQWVCNVL 16

Search completed: September 8, 2004, 16:11:37
Job time : 125 secs
```


GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:32:04 ; Search time 32 Seconds
(without alignments)
25.813 Million cell updates/sec

Title: US-09-825-517A-151

Perfect score: 98

Sequence: 1 DWVCEFLKMQWACNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	43.9	21	4	US-09-337-227C-27
2	43	43.9	21	4	US-09-723-251A-27
3	42	42.9	579	1	US-08-448-196A-8
4	41	41.8	382	4	US-09-252-991A-25095
5	40.5	41.3	413	4	US-09-491-577-72
6	40	40.8	20	1	US-08-484-135-78
7	40	40.8	20	1	US-08-484-635-40
8	40	40.8	20	2	US-08-484-631-40
9	40	40.8	20	2	US-08-827-570-40
10	40	40.8	23	1	US-08-484-635-56
11	40	40.8	23	2	US-08-484-631-56
12	40	40.8	23	2	US-08-827-570-56
13	39.5	40.3	551	3	US-09-194-145-2
14	39.5	40.3	551	6	5198359-2
15	39.5	40.3	551	6	5449756-2
16	39.5	40.3	2972	4	US-08-463-260A-387
17	39.5	40.3	2972	4	US-08-488-446-387
18	39.5	40.3	2972	4	US-08-467-344A-387
19	39	39.8	26	1	US-08-484-635-90
20	39	39.8	26	2	US-08-484-631-90
21	39	39.8	26	2	US-08-827-570-90
22	39	39.8	128	4	US-09-252-991A-27977
23	39	39.8	399	1	US-08-414-926A-5
24	39	39.8	399	2	US-08-926-922-5
25	39	39.8	399	3	US-09-253-682-5
26	39	39.8	399	3	US-09-527-657-5
27	39	39.8	399	4	US-09-892-100-5

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28 39 39.8 462 4 US-09-886-319A-72 Sequence 72, Appl
29 38 38.8 97 4 US-09-252-991A-24855 Sequence 24855, A
30 38 38.8 235 4 US-09-252-991A-16701 Sequence 16701, A
31 38 38.8 318 3 US-09-120-365-77 Sequence 77, Appl
32 38 38.8 318 3 US-09-515-039-77 Sequence 77, Appl
33 38 38.8 360 4 US-09-417-039-4 Sequence 4, Appl
34 38 38.8 415 3 US-09-100-193-2 Sequence 2, Appl
35 38 38.8 422 2 US-08-485-938A-34 Sequence 34, Appl
36 38 38.8 439 3 US-08-850-227-2 Sequence 2, Appl
37 38 38.8 439 3 US-09-054-985A-2 Sequence 2, Appl
38 38.8 451 4 US-09-086-663A-83 Sequence 83, Appl
39 38 38.8 463 1 US-08-426-428-2 Sequence 2, Appl
40 38 38.8 463 3 US-08-850-227-4 Sequence 4, Appl
41 38 38.8 463 3 US-09-054-985A-4 Sequence 4, Appl
42 38 38.8 463 3 US-08-871-314-2 Sequence 2, Appl
43 38 38.8 463 4 US-09-886-319A-73 Sequence 73, Appl
44 38 38.8 480 3 US-09-100-193-1 Sequence 1, Appl
45 38 38.8 513 3 US-09-100-193-3 Sequence 3, Appl

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ALIGNMENTS

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RESULT 1
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

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Query Match 43.9%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 1.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

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QY 2 WVCEFLKMQWAC 13
   |||:|||
Db 3 WVCRAGPLQWLC 14

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RESULT 2
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES

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FILE REFERENCE: P1071P2C1.2rev
CURRENT APPLICATION NUMBER: US/09/723,251A
CURRENT FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: US 09/337,227
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6608028
US-09-723-251A-27

Query Match 43.9%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 1.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEFLKMQWAC 13
|||: |||
DB 3 WVCAGPLQWLC 14

RESULT 3

US-08-448-196A-8
Sequence 8, Application US/08448196A
Patent No. 5780594

GENERAL INFORMATION:
APPLICANT: CARTER, DANIEL C.
TITLE OF INVENTION: BIOLOGICALLY ACTIVE PROTEIN FRAGMENTS
TITLE OF INVENTION: CONTAINING SPECIFIC BINDING REGIONS OF SERUM ALBUMIN OR
RELATED PROTEINS
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:

ADDRESSEE: NASA
STREET: MARSHALL SPACE FLIGHT CENTER
CITY: HUNTSVILLE
STATE: ALABAMA
COUNTRY: USA
ZIP: 35812

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
FILING DATE: 23-MAY-1995
APPLICATION NUMBER: US/08/448,196A

CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: BROAD JR., ROBERT L.
REGISTRATION NUMBER: 18,757
REFERENCE/DOCKET NUMBER: XX/MFS-28402-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 205-544-0021
TELEFAX: 205-544-0258

INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 579 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
US-08-448-196A-8

Query Match 42.9%; Score 42; DB 1; Length 579;
Best Local Similarity 53.8%; Pred. No. 72;
Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWVCEFLKMQWAC 13
|||: |||
DB 541 EWLEFLKXVQKC 553

RESULT 4

US-09-252-991A-25095
Sequence 25095, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25095
LENGTH: 382
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25095

Query Match 41.8%; Score 41; DB 4; Length 382;
Best Local Similarity 42.9%; Pred. No. 67;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCEFLKMQWACN 14
|||: |||
DB 234 DWLCKXLSYQTGCS 247

RESULT 5

US-09-491-577-72
Sequence 72, Application US/09491577
Patent No. 6610511

GENERAL INFORMATION:
APPLICANT: Yale University
APPLICANT: Carlson, John R.
APPLICANT: Kim, Hunhyong
APPLICANT: Clyne, Peter J.
APPLICANT: Warr, Coral G.

TITLE OF INVENTION: No. 6610511el Family of Odorant Receptor Genes in Drosophila
FILE REFERENCE: 44574-5061-US
CURRENT APPLICATION NUMBER: US/09/491,577
CURRENT FILING DATE: 2000-01-25
EARLIER APPLICATION NUMBER: US 60/117,132
EARLIER FILING DATE: 1999-01-25
NUMBER OF SEQ ID NOS: 112
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 72
LENGTH: 413
TYPE: PRT
ORGANISM: Drosophila melanogaster
US-09-491-577-72

Query Match 41.3%; Score 40.5; DB 4; Length 413;
Best Local Similarity 58.3%; Pred. No. 88;
Matches 7; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

QY 2 WVCEFLKMQWAC 13
|||: |||
DB 192 WLEFLMNWTC 202

RESULT 6

US-08-484-135-78
Sequence 78, Application US/08484135

; Patent No. 5767078
; GENERAL INFORMATION:
; APPLICANT: Johnson, Dana L
; APPLICANT: Zivin, Robert A
; TITLE OF INVENTION: AGONIST PEPTIDE DIMERS
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Frank S. DiGiglio
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: New York
; COUNTRY: U.S.A..
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,135
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: DiGiglio, Frank S
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 9594
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742-4343
; TELEFAX: (516) 742-4366
; INFORMATION FOR SEQ ID NO: 78:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-135-78

Query Match 40.8%; Score 40; DB 1; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWAC 13
|:|:| | | | |
Db 3 DYVCRMGPMTWVC 15

RESULT 7
US-08-484-635-40
; Sequence 40, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600

; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-635-40

Query Match 40.8%; Score 40; DB 1; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWAC 13
|:|:| | | | |
Db 3 DYVCRMGPMTWVC 15

RESULT 8
US-08-484-631-40
; Sequence 40, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600

TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-40

Query Match 40.8%; Score 40; DB 2; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWAC 13
|:|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 9
US-08-827-570-40
; Sequence 40, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-827-570-40

Query Match 40.8%; Score 40; DB 2; Length 20;
Best Local Similarity 46.2%; Pred. No. 4.4;

Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 DWVCEFLKQWAC 13
|:|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 10
US-08-484-635-56
; Sequence 56, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-56

Query Match 40.8%; Score 40; DB 1; Length 23;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEFLKQWAC 13
|:|:|:|:|:|:|
Db 3 DYVCRMGPMTWVC 15

RESULT 11
US-08-484-631-56
; Sequence 56, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.

```
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-484-631-56

Query Match 40.8%; Score 40; DB 2; Length 23;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCFEFLKMQWAC 13
Db 3 DYCRMGPMTWVC 15

RESULT 12
; Sequence 56, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
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; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 56:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 23 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-827-570-56

Query Match 40.8%; Score 40; DB 2; Length 23;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWCFEFLKMQWAC 13
Db 3 DYCRMGPMTWVC 15

RESULT 13
; Sequence 2, Application US/09194145
; Patent No. 6281193
; GENERAL INFORMATION:
; APPLICANT: STROM, Terry
; APPLICANT: MASINSKI, Wlodzimierz
; TITLE OF INVENTION: COMPOUNDS THAT INHIBIT THE BINDING OF RAF-1 OR 14-3-3
; TITLE OF INVENTION: PROTEINS TO THE BETA CHAIN OF IL-2 RECEPTOR, AND
; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITIONS CONTAINING SAME
; FILE REFERENCE: STROM-1A
; CURRENT APPLICATION NUMBER: US/09/194,145
; CURRENT FILING DATE: 1999-03-08
; EARLIER APPLICATION NUMBER: PCT/US97/08542
; EARLIER FILING DATE: 1997-05-22
; EARLIER APPLICATION NUMBER: 60/018,183
; EARLIER FILING DATE: 1996-05-23
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-194-145-2

Query Match 40.3%; Score 39.5; DB 3; Length 551;
Best Local Similarity 43.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 3; Gaps 1;

Qy 4 CEFL---KMQWACNVL 16
Db 74 CELLPVQSQAWACNLI 89
```

RESULT 14
5198359-2
; Patent No. 5198359
; APPLICANT: TANIGUCHI, TADATSUGU; HATAKEYAMA, MASANORI;
; MINAMOTO, SEIJIRO; KONO, TAKESHI; DOI, TAKESHI; MIYASAKA, MASAYUKI;
; TSUDO, MITSURU; KARASUYAMA, HAJIME
; TITLE OF INVENTION: RECOMBINANT PROTEIN RECEPTOR FOR IL-2
; NUMBER OF SEQUENCES: 9
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/487,059
; FILING DATE: 05-MAR-1990
; SEQ ID NO: 2:
; LENGTH: 551
5198359-2

Query Match 40.3%; Score 39.5; DB 6; Length 551;
Best Local Similarity 43.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 3; Gaps 1;
QY 4 CEFL---KMQWACNVL 16
||| : ||| :
Db 74 CELLPVSOASWACNLI 89

RESULT 15
5449756-2
; Patent No. 5449756
; APPLICANT: TANIGUCHI, TADATSUGU; HATAKEYAMA, MASANORI; MINAMOTO,
; SEIJIRO; KONO, TAKESHI; DOI, TAKESHI; MIYASAKA, MASAYUKI; TSUDO,
; MITSURU; KARASUYAMA, HAJIME
; TITLE OF INVENTION: RECOMBINANT PROTEIN RECEPTOR FOR IL-2
; NUMBER OF SEQUENCES: 12
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/88,592
; FILING DATE: 9-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 865,155
; FILING DATE: 08-APR-1992
; APPLICATION NUMBER: 487,059
; FILING DATE: 05-MAR-1990
; SEQ ID NO: 2:
; LENGTH: 551
5449756-2

Query Match 40.3%; Score 39.5; DB 6; Length 551;
Best Local Similarity 43.8%; Pred. No. 1.7e+02;
Matches 7; Conservative 3; Mismatches 3; Indels 3; Gaps 1;
QY 4 CEFL---KMQWACNVL 16
||| : ||| :
Db 74 CELLPVSOASWACNLI 89

Search completed: September 8, 2004, 16:01:14
Job time : 32 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-150
Perfect score: 103
Sequence: 1 DWCEFFKQWFCNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-150
2	96	93.2	16	11	US-09-825-517A-75
3	94	91.3	16	11	US-09-825-517A-59
4	94	91.3	16	11	US-09-825-517A-76
5	94	91.3	16	11	US-09-825-517A-86
6	94	91.3	16	11	US-09-825-517A-137
7	90	87.4	16	11	US-09-825-517A-100
8	90	87.4	16	11	US-09-825-517A-104
9	90	87.4	16	11	US-09-825-517A-147
10	89	86.4	16	11	US-09-825-517A-139
11	87	84.5	16	11	US-09-825-517A-130
12	86	83.5	16	11	US-09-825-517A-128
13	85	82.5	16	11	US-09-825-517A-67
14	85	82.5	16	11	US-09-825-517A-80
15	85	82.5	16	11	US-09-825-517A-105

16	85	82.5	16	11	US-09-825-517A-109	Sequence 109, App
17	85	82.5	16	11	US-09-825-517A-127	Sequence 127, App
18	84	81.6	16	11	US-09-825-517A-50	Sequence 50, Appl
19	84	81.6	16	11	US-09-825-517A-56	Sequence 56, Appl
20	84	81.6	16	11	US-09-825-517A-68	Sequence 68, Appl
21	83	80.6	16	11	US-09-825-517A-78	Sequence 78, Appl
22	83	80.6	16	11	US-09-825-517A-82	Sequence 82, Appl
23	83	80.6	16	11	US-09-825-517A-115	Sequence 115, App
24	83	80.6	16	11	US-09-825-517A-123	Sequence 123, App
25	82	79.6	16	11	US-09-825-517A-119	Sequence 119, App
26	81	78.6	16	11	US-09-825-517A-52	Sequence 52, Appl
27	81	78.6	16	11	US-09-825-517A-126	Sequence 126, App
28	80	77.7	16	11	US-09-825-517A-146	Sequence 146, App
29	80	77.7	16	11	US-09-825-517A-148	Sequence 148, App
30	79	76.7	16	11	US-09-825-517A-42	Sequence 42, Appl
31	79	76.7	16	11	US-09-825-517A-49	Sequence 49, Appl
32	79	76.7	16	11	US-09-825-517A-61	Sequence 61, Appl
33	79	76.7	16	11	US-09-825-517A-65	Sequence 65, Appl
34	79	76.7	16	11	US-09-825-517A-129	Sequence 129, App
35	79	76.7	16	11	US-09-825-517A-151	Sequence 151, App
36	78	75.7	16	11	US-09-825-517A-38	Sequence 38, Appl
37	78	75.7	16	11	US-09-825-517A-71	Sequence 71, Appl
38	78	75.7	16	11	US-09-825-517A-108	Sequence 108, App
39	78	75.7	16	11	US-09-825-517A-118	Sequence 118, App
40	78	75.7	16	11	US-09-825-517A-124	Sequence 124, App
41	78	75.7	16	11	US-09-825-517A-133	Sequence 133, App
42	78	75.7	16	11	US-09-825-517A-141	Sequence 141, App
43	77	74.8	16	11	US-09-825-517A-45	Sequence 45, Appl
44	77	74.8	16	11	US-09-825-517A-55	Sequence 55, Appl
45	77	74.8	16	11	US-09-825-517A-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 7.8e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
|||||
Db 1 DWCEFFKQWFCNIL 16

RESULT 2
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match          93.2%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.6e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 3
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.4e-06;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 4
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 5
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNVL 16
Db 1 DWVCEFFKQWFCNVL 16

RESULT 6
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT

```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match          91.3%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.4e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEFFKQWFCNIL 16

RESULT 7
US-09-825-517A-100
; Sequence 100, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-100

Query Match          87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.3e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCELFKQWFCNIL 16

RESULT 8
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match          87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.3e-06;
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Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
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Db 1 DWCEFFKQWFCNIL 16

RESULT 9
US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match          87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.3e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEFIKQWFCNVL 16

RESULT 10
US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

Query Match          86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEFFKQWFCNIL 16
   ||||| |||||
Db 1 DWCEYFKQWLCNIL 16
```

RESULT 11
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 84.5%; Score 87; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 1.4e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
 |||||:|||||:
 DB 1 DWVCEWFKQWFCNML 16

RESULT 12
 US-09-825-517A-128
 ; Sequence 128, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 128
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-128

Query Match 83.5%; Score 86; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 1.9e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
 |||||:|||||:
 DB 1 DWVCNLFKNQWFCNVL 16

RESULT 13
 US-09-825-517A-67
 ; Sequence 67, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 67
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-67

Query Match 82.5%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.7e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
 |||||:|||||:
 DB 1 DWVCEFYKQWNCNVL 16

RESULT 14
 US-09-825-517A-80
 ; Sequence 80, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 80
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-80

Query Match 82.5%; Score 85; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 2.7e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWFCNVL 16
 |||||:|||||:
 DB 1 DWVCEFIKNQWMCNVL 16

RESULT 15
 US-09-825-517A-105
 ; Sequence 105, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105
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Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.7e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
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Cy      1 DWVCEFFKQDWFNCNIL 16
        |||||:|||||
Db      1 DWVCEYFKSQWMCNML 16
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Search completed: September 8, 2004, 15:58:39
Job time : 43.85 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-150
Perfect score: 103
Sequence: 1 DWCEFFKQWFCNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS-COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	45	43.7	480	2	US-08-828-488-8
2	45	43.7	480	4	US-09-299-689A-8
3	45	43.7	480	4	US-09-702-705-336
4	45	43.7	480	4	US-09-736-457-336
5	45	43.7	480	4	US-09-614-124B-336
6	45	43.7	480	4	US-09-671-325-336
7	45	43.7	480	4	US-09-589-184-336
8	42	40.8	56	1	US-08-328-256-9
9	42	40.8	478	4	US-09-137-223A-2
10	42	40.8	496	1	US-08-328-256-12
11	41	39.8	24	1	US-08-484-635-86
12	41	39.8	24	2	US-08-484-631-86
13	41	39.8	24	2	US-08-827-570-86
14	41	39.8	701	3	US-09-087-727-2
15	41	39.8	701	4	US-09-853-053-2
16	40	38.8	231	3	US-08-448-489-19
17	40	38.8	604	4	US-09-391-104-30
18	40	38.8	604	4	US-09-820-809-13
19	40	38.8	607	3	US-09-000-041A-2
20	40	38.8	607	3	US-09-211-704A-10
21	40	38.8	912	3	US-08-617-785-2
22	40	38.8	912	4	US-09-641-318-2
23	40	38.8	912	4	US-09-817-464-2
24	40	38.8	912	5	PCT-US91-09422-19
25	39.5	38.3	286	4	US-09-328-352-5022
26	39	37.9	20	2	US-07-894-063A-6
27	39	37.9	21	4	US-09-337-227C-27

28 39 37.9 21 4 US-09-723-251A-27
29 39 37.9 30 1 US-08-262-037-16
30 39 37.9 38 1 US-08-262-037-95
31 39 37.9 47 1 US-08-262-037-96
32 39 37.9 106 3 US-08-444-818-24
33 39 37.9 153 1 US-07-695-564-9
34 39 37.9 153 1 US-08-241-387-9
35 39 37.9 176 3 US-08-444-818-28
36 39 37.9 222 4 US-09-328-352-6740
37 39 37.9 272 4 US-09-328-352-6959
38 39 37.9 360 4 US-08-850-328-4
39 39 37.9 399 1 US-08-414-926A-5
40 39 37.9 399 2 US-08-926-922-5
41 39 37.9 399 3 US-09-253-682-5
42 39 37.9 399 3 US-09-527-657-5
43 39 37.9 399 4 US-09-892-100-5
44 39 37.9 516 3 US-08-867-611-6
45 39 37.9 516 4 US-09-690-359-6

ALIGNMENTS

RESULT 1
US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match

43.7%; Score 45; DB 2; Length 480;

Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | | |
Db 400 DMACNFMGDEWFDVSL 415

RESULT 2

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | | |
Db 400 DMACNFMGDEWFDVSL 415

RESULT 3

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | | |
Db 400 DMACNFMGDEWFDVSL 415

RESULT 4

US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
| | | | | : | | | | |
Db 400 DMACNFMGDEWFDVSL 415

RESULT 5

US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriack
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
Db 400 DMACNFMGDEWFDLSL 415

RESULT 6
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriack
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
Db 400 DMACNFMGDEWFDLSL 415

RESULT 7
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary

; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darriack
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match 43.7%; Score 45; DB 4; Length 480;
Best Local Similarity 43.8%; Pred. No. 44;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCEFFKQWFCNIL 16
Db 400 DMACNFMGDEWFDLSL 415

RESULT 8
US-08-328-256-9
; Sequence 9, Application US/08328256
; Patent No. 5643749
; GENERAL INFORMATION:
; APPLICANT: REVEL, Michel
; APPLICANT: ABRAMOVICH, Carolina
; APPLICANT: RATOVITSKI, Edward
; TITLE OF INVENTION: SOLUBLE INTERFERON ALPHA-RECEPTOR, ITS
; TITLE OF INVENTION: PREPARATION AND USE
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/328,256
; FILING DATE: 24-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107378
; FILING DATE: 24-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: REVEL=13
; REFERENCE/DOCKET NUMBER: 25,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 56 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-328-256-9

Query Match 40.8%; Score 42; DB 1; Length 56;
Best Local Similarity 50.0%; Pred. No. 14;

Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNLL 16
| | | | : | : | : |
Db 18 DAVCEYFSEQPLKNLL 33

RESULT 9

US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

Query Match 40.8%; Score 42; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 1.2e+02;
Matches 5; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNLL 16
| | | | : | : | : |
Db 322 EWLSSVYKQWFCNLL 333

RESULT 10

US-08-328-256-12
; Sequence 12, Application US/08328256
; Patent No. 5643749
; GENERAL INFORMATION:
; APPLICANT: REVEL, Michel
; APPLICANT: ABRAMOVICH, Carolina
; APPLICANT: RATOVITSKI, Edward
; TITLE OF INVENTION: SOLUBLE INTERFERON ALPHA-RECEPTOR, ITS
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/328,256
; FILING DATE: 24-OCT-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: IL 107378
; FILING DATE: 24-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, ROGER L.
; REGISTRATION NUMBER: REVEL=13
; REFERENCE/DOCKET NUMBER: 25,618
; TELEPHONE: 202-628-5197

; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 496 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-328-256-12

Query Match 40.8%; Score 42; DB 1; Length 496;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNLL 16
| | | | : | : | : |
Db 415 DAVCEYFSEQPLKNLL 430

RESULT 11

US-08-484-635-86
; Sequence 86, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-86

Query Match 39.8%; Score 41; DB 1; Length 24;
Best Local Similarity 38.5%; Pred. No. 8.4;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

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QY      1 DWVCEFFKQWFC 13
Db      10 EYVCQWGPDTWLC 22

RESULT 12
US-08-484-631-86
; Sequence 86, Application US/08484631
; Patent No. 5830851
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,631
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-86

Query Match      39.8%; Score 41; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 8.4;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEFFKQWFC 13
Db      10 EYVCQWGPDTWLC 22

RESULT 13
US-08-827-570-86
; Sequence 86, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.

```

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; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/827,570
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/484,635
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-827-570-86

Query Match      39.8%; Score 41; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 8.4;
Matches 5; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY      1 DWVCEFFKQWFC 13
Db      10 EYVCQWGPDTWLC 22

RESULT 14
US-09-087-727-2
; Sequence 2, Application US/09087727A
; Patent No. 6103496
; GENERAL INFORMATION:
; APPLICANT: Brash, Alan R.
; APPLICANT: Boeglin, William E
; APPLICANT: Kim, Richard B
; TITLE OF INVENTION: Isolated and Purified 12R-Lipoxygenase Protein and
; FILE REFERENCE: Attorney Docket No. 6103496 1242-7
; CURRENT APPLICATION NUMBER: US/09/087,727A
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 701
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-087-727-2

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Query Match 39.8%; Score 41; DB 3; Length 701;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 PFKDQWFCN 14
| | | | |
Db 77 PFKDPWYCN 85

RESULT 15
US-09-853-053-2
; Sequence 2, Application US/09853053
; Patent No. 6569644
; GENERAL INFORMATION:
; APPLICANT: Brash, Alan
; APPLICANT: Boeglin, William
; APPLICANT: Kim, Richard
; TITLE OF INVENTION: ISOLATED AND PURIFIED 12R-LIPOXYGENASE PROTEIN AND NUCLEIC ACIDS
; FILE REFERENCE: Attorney Docket No. 6569644 1242/7/2
; CURRENT APPLICATION NUMBER: US/09/853,053
; CURRENT FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 701
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-853-053-2

Query Match 39.8%; Score 41; DB 4; Length 701;
Best Local Similarity 66.7%; Pred. No. 2.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 6 PFKDQWFCN 14
| | | | |
Db 77 PFKDPWYCN 85

Search completed: September 8, 2004, 14:31:55
Job time : 13.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-149

Perfect score: 100

Sequence: 1 DWCEIVKQWICNPL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100	100.0	16	11	US-09-825-517A-149
2	92	92.0	16	11	US-09-825-517A-93
3	85	85.0	16	11	US-09-825-517A-91
4	84	84.0	16	11	US-09-825-517A-78
5	84	84.0	16	11	US-09-825-517A-95
6	84	84.0	16	11	US-09-825-517A-113
7	84	84.0	16	11	US-09-825-517A-116
8	83	83.0	16	11	US-09-825-517A-80
9	82	82.0	16	11	US-09-825-517A-60
10	82	82.0	16	11	US-09-825-517A-127
11	81	81.0	16	11	US-09-825-517A-117
12	80	80.0	16	11	US-09-825-517A-61
13	78	78.0	16	11	US-09-825-517A-139
14	77	77.0	16	11	US-09-825-517A-59
15	77	77.0	16	11	US-09-825-517A-92

16	77	77.0	16	11	US-09-825-517A-147	Sequence 147, App
17	76	76.0	16	11	US-09-825-517A-68	Sequence 68, Appl
18	76	76.0	16	11	US-09-825-517A-114	Sequence 114, App
19	75	75.0	16	11	US-09-825-517A-65	Sequence 65, Appl
20	75	75.0	16	11	US-09-825-517A-128	Sequence 128, App
21	74	74.0	16	11	US-09-825-517A-126	Sequence 126, App
22	73	73.0	16	11	US-09-825-517A-50	Sequence 50, Appl
23	73	73.0	16	11	US-09-825-517A-105	Sequence 105, App
24	73	73.0	16	11	US-09-825-517A-109	Sequence 109, App
25	73	73.0	16	11	US-09-825-517A-119	Sequence 119, App
26	73	73.0	16	11	US-09-825-517A-146	Sequence 146, App
27	73	73.0	16	11	US-09-825-517A-148	Sequence 148, App
28	72	72.0	16	11	US-09-825-517A-56	Sequence 56, Appl
29	72	72.0	16	11	US-09-825-517A-71	Sequence 71, Appl
30	72	72.0	16	11	US-09-825-517A-75	Sequence 75, Appl
31	72	72.0	16	11	US-09-825-517A-85	Sequence 85, Appl
32	72	72.0	16	11	US-09-825-517A-107	Sequence 107, App
33	72	72.0	16	11	US-09-825-517A-108	Sequence 108, App
34	72	72.0	16	11	US-09-825-517A-150	Sequence 150, App
35	71	71.0	16	11	US-09-825-517A-49	Sequence 49, Appl
36	71	71.0	16	11	US-09-825-517A-76	Sequence 76, Appl
37	71	71.0	16	11	US-09-825-517A-77	Sequence 77, Appl
38	71	71.0	16	11	US-09-825-517A-81	Sequence 81, Appl
39	71	71.0	16	11	US-09-825-517A-83	Sequence 83, Appl
40	71	71.0	16	11	US-09-825-517A-86	Sequence 86, Appl
41	71	71.0	16	11	US-09-825-517A-100	Sequence 100, App
42	71	71.0	16	11	US-09-825-517A-137	Sequence 137, App
43	71	71.0	16	11	US-09-825-517A-151	Sequence 151, App
44	70	70.0	16	11	US-09-825-517A-52	Sequence 52, Appl
45	70	70.0	16	11	US-09-825-517A-104	Sequence 104, App

ALIGNMENTS

RESULT 1

US-09-825-517A-149
; Sequence 149, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 149
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-149

Query Match 100.0%; Score 100; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEIVKQWICNPL 16

Db 1 DWCEIVKQWICNPL 16

RESULT 2

US-09-825-517A-93
; Sequence 93, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 93
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-93

Query Match          92.0%; Score 92; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 1.8e-06;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 3
US-09-825-517A-91
; Sequence 91, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-91

Query Match          85.0%; Score 85; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 1.8e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 4
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match          84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.5e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 5
US-09-825-517A-95
; Sequence 95, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 95
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-95

Query Match          84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKNQWICNPL 16
   |||||:|:|:|
Db 1 DWVCEIVKQWVCNPL 16

RESULT 6
US-09-825-517A-113
; Sequence 113, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 113
; LENGTH: 16
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-113

Query Match      84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.5e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
   ||||| :|||: |||
Db 1 DWVCEYVKQWMCNPL 16
   ||||| :|||: |||

RESULT 7
US-09-825-517A-116
; Sequence 116, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 116
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-116

Query Match      84.0%; Score 84; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.5e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
   ||||| ||||| |||
Db 1 DWVCEIVKQWMCNPL 16
   ||||| ||||| |||

RESULT 8
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      83.0%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 3.5e-05;
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Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
   ||||| :|||: |||
Db 1 DWVCEIFKQWMCNVL 16
   ||||| :|||: |||

RESULT 9
US-09-825-517A-60
; Sequence 60, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 60
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-60

Query Match      82.0%; Score 82; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
   ||||| ||||| |||
Db 1 DWVCEIDKGQWTCNPL 16
   ||||| ||||| |||

RESULT 10
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match      82.0%; Score 82; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 4.8e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEIVKQWMCNPL 16
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Db 1 DWVCELLKQWMCNVL 16
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RESULT 11
US-09-825-517A-117
; Sequence 117, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 117
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-117

```

```

Query Match      81.0%; Score 81; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.7e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEIVKNQWICNPL 16
||||| ||||| |||||
DB 1 DWVCEWGNQWTCNPL 16

```

```

RESULT 12
US-09-825-517A-61
; Sequence 61, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-61

```

```

Query Match      80.0%; Score 80; DB 11; Length 16;
Best Local Similarity 73.3%; Pred. No. 9.3e-05;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEIVKNQWICNPL 15
||||| : ||||| |||
DB 1 DWVCNLFKNQWFCNP 15

```

```

RESULT 13
US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

```

```

Query Match      78.0%; Score 78; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00018;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 1 DWVCEIVKNQWICNPL 16
||||| ||||| |||||
DB 1 DWVCEYFKNQWLCNIL 16

```

```

RESULT 14
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

```

```

Query Match      77.0%; Score 77; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 0.00025;
Matches 12; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

QY 1 DWVCEIVKNQWICNPL 16
||||| ||||| |||||
DB 1 DWVCEYFKNQWFCNVL 16

```

```

RESULT 15
US-09-825-517A-92
; Sequence 92, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 92
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-92
```

```
Query Match      77.0%; Score 77; DB 11; Length 16;
Best Local Similarity 62.5%; Pred. No. 0.00025;
Matches 10; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 DWVCEIVKKNQWICNPL 16
      ||:||:||||| ||
Db      1 DWICNLFKNQWFCGEL 16
```

```
Search completed: September 8, 2004, 15:58:39
Job time : 43.85 secs
```


GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:02:12 ; Search time 191.8 Seconds
(without alignments)
81.423 Million cell updates/sec

Title: US-09-825-517A-148

Perfect score: 108

Sequence: 1 DWCEWLKHQWFCNAL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6019581 seqs, 976053577 residues

Total number of hits satisfying chosen parameters: 6019581

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA Main.*

1: /cgn2_6/ptodata/2/paa/PCTUS_COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US081_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US082_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US083_COMB.pep.*
8: /cgn2_6/ptodata/2/paa/US084_COMB.pep.*
9: /cgn2_6/ptodata/2/paa/US085_COMB.pep.*
10: /cgn2_6/ptodata/2/paa/US086_COMB.pep.*
11: /cgn2_6/ptodata/2/paa/US087_COMB.pep.*
12: /cgn2_6/ptodata/2/paa/US088_COMB.pep.*
13: /cgn2_6/ptodata/2/paa/US089_COMB.pep.*
14: /cgn2_6/ptodata/2/paa/US090_COMB.pep.*
15: /cgn2_6/ptodata/2/paa/US091_COMB.pep.*
16: /cgn2_6/ptodata/2/paa/US092_COMB.pep.*
17: /cgn2_6/ptodata/2/paa/US093_COMB.pep.*
18: /cgn2_6/ptodata/2/paa/US094_COMB.pep.*
19: /cgn2_6/ptodata/2/paa/US095_COMB.pep.*
20: /cgn2_6/ptodata/2/paa/US096_COMB.pep.*
21: /cgn2_6/ptodata/2/paa/US097A_COMB.pep.*
22: /cgn2_6/ptodata/2/paa/US097B_COMB.pep.*
23: /cgn2_6/ptodata/2/paa/US098_COMB.pep.*
24: /cgn2_6/ptodata/2/paa/US099A_COMB.pep.*
25: /cgn2_6/ptodata/2/paa/US099B_COMB.pep.*
26: /cgn2_6/ptodata/2/paa/US100_COMB.pep.*
27: /cgn2_6/ptodata/2/paa/US101_COMB.pep.*
28: /cgn2_6/ptodata/2/paa/US102_COMB.pep.*
29: /cgn2_6/ptodata/2/paa/US103_COMB.pep.*
30: /cgn2_6/ptodata/2/paa/US104_COMB.pep.*
31: /cgn2_6/ptodata/2/paa/US106_COMB.pep.*
32: /cgn2_6/ptodata/2/paa/US107_COMB.pep.*
33: /cgn2_6/ptodata/2/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match Length	DB ID	Description

1	108	100.0	16	23	US-09-825-517A-148	Sequence 148, App
2	98	90.7	16	23	US-09-825-517A-141	Sequence 141, App
3	96	88.9	16	23	US-09-825-517A-146	Sequence 146, App
4	92	85.2	16	23	US-09-825-517A-126	Sequence 126, App
5	92	85.2	16	23	US-09-825-517A-144	Sequence 144, App
6	91	84.3	16	23	US-09-541-345-78	Sequence 78, Appl
7	91	84.3	16	23	US-09-825-517A-78	Sequence 78, Appl
8	89	82.4	16	19	US-09-541-345-68	Sequence 68, Appl
9	89	82.4	16	23	US-09-825-517A-68	Sequence 68, Appl
10	89	82.4	16	23	US-09-825-517A-130	Sequence 130, App
11	86	79.6	16	23	US-09-825-517A-125	Sequence 125, App
12	86	79.6	16	23	US-09-825-517A-142	Sequence 142, App
13	85	78.7	16	19	US-09-541-345-54	Sequence 54, Appl
14	85	78.7	16	23	US-09-825-517A-54	Sequence 54, Appl
15	85	78.7	16	23	US-09-825-517A-112	Sequence 112, App
16	85	78.7	16	23	US-09-825-517A-122	Sequence 122, App
17	85	78.7	16	23	US-09-825-517A-138	Sequence 138, App
18	85	78.7	16	23	US-09-825-517A-140	Sequence 140, App
19	85	78.7	16	23	US-09-825-517A-143	Sequence 143, App
20	84	77.8	16	19	US-09-541-345-59	Sequence 59, Appl
21	84	77.8	16	19	US-09-541-345-101	Sequence 101, App
22	84	77.8	16	23	US-09-825-517A-59	Sequence 59, Appl
23	84	77.8	16	23	US-09-825-517A-101	Sequence 101, App
24	84	77.8	16	23	US-09-825-517A-127	Sequence 127, App
25	83	76.9	16	23	US-09-825-517A-115	Sequence 115, App
26	83	76.9	16	23	US-09-825-517A-147	Sequence 147, App
27	82	75.9	16	19	US-09-541-345-56	Sequence 56, Appl
28	82	75.9	16	19	US-09-541-345-75	Sequence 75, Appl
29	82	75.9	16	23	US-09-825-517A-56	Sequence 56, Appl
30	82	75.9	16	23	US-09-825-517A-75	Sequence 75, Appl
31	81	75.0	16	19	US-09-541-345-103	Sequence 103, App
32	81	75.0	16	23	US-09-825-517A-103	Sequence 103, App
33	80	74.1	16	19	US-09-541-345-86	Sequence 86, Appl
34	80	74.1	16	23	US-09-825-517A-86	Sequence 86, Appl
35	80	74.1	16	23	US-09-825-517A-117	Sequence 117, App
36	80	74.1	16	23	US-09-825-517A-150	Sequence 150, App
37	79	73.1	16	19	US-09-541-345-80	Sequence 80, Appl
38	79	73.1	16	23	US-09-825-517A-80	Sequence 80, Appl
39	79	73.1	16	23	US-09-825-517A-109	Sequence 109, App
40	77	71.3	16	23	US-09-825-517A-137	Sequence 137, App
41	77	71.3	16	23	US-09-825-517A-139	Sequence 139, App
42	76	70.4	16	19	US-09-541-345-49	Sequence 49, Appl
43	76	70.4	16	19	US-09-541-345-100	Sequence 100, App
44	76	70.4	16	23	US-09-825-517A-49	Sequence 49, Appl
45	76	70.4	16	23	US-09-825-517A-100	Sequence 100, App

ALIGNMENTS

RESULT 1
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 100.0%; Score 108; DB 23; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNAL 16

RESULT 2

US-09-825-517A-141
; Sequence 141, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 90.7%; Score 98; DB 23; Length 16;
Best Local Similarity 93.8%; Pred. No. 4.8e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNAL 16

RESULT 3

US-09-825-517A-146
; Sequence 146, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match 88.9%; Score 96; DB 23; Length 16;
Best Local Similarity 87.5%; Pred. No. 9.1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNSL 16

RESULT 4

US-09-825-517A-126
; Sequence 126, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match 85.2%; Score 92; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNSL 16

RESULT 5

US-09-825-517A-144
; Sequence 144, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match 85.2%; Score 92; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNSL 16

RESULT 6

US-09-541-345-78
; Sequence 78, Application US/09541345
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)
; FILE REFERENCE: Sequence Listing DYX-016.0 US
; CURRENT APPLICATION NUMBER: US/09/541,345

; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 107
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CEA binding
; OTHER INFORMATION: polypeptide
US-09-541-345-78

Query Match 84.3%; Score 91; DB 19; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.4e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFMKQWFCNPL 16

RESULT 7
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match 84.3%; Score 91; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.4e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFMKQWFCNPL 16

RESULT 8
US-09-541-345-68
; Sequence 68, Application US/09541345
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)
; FILE REFERENCE: Sequence Listing DYX-016.0 US
; CURRENT APPLICATION NUMBER: US/09/541,345
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 107
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CEA binding
; OTHER INFORMATION: polypeptide
US-09-541-345-68

Query Match 82.4%; Score 89; DB 19; Length 16;

Best Local Similarity 81.2%; Pred. No. 8.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFMKQWFCNPL 16

RESULT 9
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match 82.4%; Score 89; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFMKQWFCNPL 16

RESULT 10
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match 82.4%; Score 89; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFMKQWFCNML 16

RESULT 11

```

US-09-825-517A-125
; Sequence 125, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      79.6%; Score 86; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKMQWACNVL 16

RESULT 12
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      79.6%; Score 86; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKMQWACNVL 16

RESULT 13
US-09-541-345-54
; Sequence 54, Application US/09541345
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC ANTIGEN (CEA)
; FILE REFERENCE: Sequence listing DYX-016.0 US
; CURRENT APPLICATION NUMBER: US/09/541,345
; CURRENT FILING DATE: 2000-04-03

```

```

; NUMBER OF SEQ ID NOS: 107
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: CEA binding
; OTHER INFORMATION: polypeptide
US-09-541-345-54

Query Match      78.7%; Score 85; DB 19; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKMQWACNML 16

RESULT 14
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      78.7%; Score 85; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
   ||||| |||||
Db 1 DWVCEWLKMQWACNML 16

RESULT 15
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

```

Query Match 78.7%; Score 85; DB 23; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00029;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKHQWACNII 16

Search completed: September 8, 2004, 15:35:53
Job time : 191.8 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-148
Perfect score: 108
Sequence: 1 DWCEWLKHQWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	100.0	16	11	US-09-825-517A-148
2	98	90.7	16	11	US-09-825-517A-141
3	96	88.9	16	11	US-09-825-517A-146
4	92	85.2	16	11	US-09-825-517A-126
5	92	85.2	16	11	US-09-825-517A-144
6	91	84.3	16	11	US-09-825-517A-78
7	89	82.4	16	11	US-09-825-517A-68
8	89	82.4	16	11	US-09-825-517A-130
9	86	79.6	16	11	US-09-825-517A-125
10	86	79.6	16	11	US-09-825-517A-142
11	85	78.7	16	11	US-09-825-517A-54
12	85	78.7	16	11	US-09-825-517A-112
13	85	78.7	16	11	US-09-825-517A-122
14	85	78.7	16	11	US-09-825-517A-138
15	85	78.7	16	11	US-09-825-517A-140

16	85	78.7	16	11	US-09-825-517A-143	Sequence 143, App
17	84	77.8	16	11	US-09-825-517A-59	Sequence 59, App
18	84	77.8	16	11	US-09-825-517A-101	Sequence 101, App
19	84	77.8	16	11	US-09-825-517A-127	Sequence 127, App
20	83	76.9	16	11	US-09-825-517A-115	Sequence 115, App
21	83	76.9	16	11	US-09-825-517A-147	Sequence 147, App
22	82	75.9	16	11	US-09-825-517A-56	Sequence 56, App
23	82	75.9	16	11	US-09-825-517A-75	Sequence 75, App
24	81	75.0	16	11	US-09-825-517A-103	Sequence 103, App
25	80	74.1	16	11	US-09-825-517A-86	Sequence 86, App
26	80	74.1	16	11	US-09-825-517A-117	Sequence 117, App
27	80	74.1	16	11	US-09-825-517A-150	Sequence 150, App
28	79	73.1	16	11	US-09-825-517A-80	Sequence 80, App
29	79	73.1	16	11	US-09-825-517A-109	Sequence 109, App
30	77	71.3	16	11	US-09-825-517A-137	Sequence 137, App
31	77	71.3	16	11	US-09-825-517A-139	Sequence 139, App
32	76	70.4	16	11	US-09-825-517A-49	Sequence 49, App
33	76	70.4	16	11	US-09-825-517A-100	Sequence 100, App
34	76	70.4	16	11	US-09-825-517A-151	Sequence 151, App
35	75	69.4	16	11	US-09-825-517A-105	Sequence 105, App
36	75	69.4	16	11	US-09-825-517A-128	Sequence 128, App
37	74	68.5	16	11	US-09-825-517A-65	Sequence 65, App
38	74	68.5	16	11	US-09-825-517A-81	Sequence 81, App
39	74	68.5	16	11	US-09-825-517A-107	Sequence 107, App
40	74	68.5	16	11	US-09-825-517A-113	Sequence 113, App
41	73	67.6	16	11	US-09-825-517A-50	Sequence 50, App
42	73	67.6	16	11	US-09-825-517A-76	Sequence 76, App
43	73	67.6	16	11	US-09-825-517A-95	Sequence 95, App
44	73	67.6	16	11	US-09-825-517A-104	Sequence 104, App
45	73	67.6	16	11	US-09-825-517A-114	Sequence 114, App

ALIGNMENTS

RESULT 1
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 100.0%; Score 108; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKHQWFCNAL 16
Db 1 DWCEWLKHQWFCNAL 16

RESULT 2
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-141

Query Match      90.7%; Score 98; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.7e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
DB 1 DWVCEWLKHQWFCNAL 16

RESULT 3
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-146

Query Match      88.9%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
DB 1 DWVCEWLKXQWFCNSL 16

RESULT 4
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-126

Query Match      85.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.7e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
DB 1 DWVCEWLKNQWQCNVL 16

RESULT 5
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
; US-09-825-517A-144

Query Match      85.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.7e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKHQWFCNAL 16
DB 1 DWVCEWLKQWQYCNLSL 16

RESULT 6
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

Query Match      84.3%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEFMKQWFCNPL 16

RESULT 7
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      82.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.1e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEFMKQWFCNPL 16

RESULT 8
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match      82.4%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.1e-05;
```

```
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEFMKQWFCNML 16

RESULT 9
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      79.6%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 10
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      79.6%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.0001;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
Db 1 DWVCEWLKQWACNVL 16
```

RESULT 11

US-09-825-517A-54
 ; Sequence 54, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 54
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-54

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| |||||
 Db 1 DWVCEWLKQWACNNL 16

RESULT 12

US-09-825-517A-112
 ; Sequence 112, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 112
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-112

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKQWACNNL 16

RESULT 13

US-09-825-517A-122
 ; Sequence 122, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 122
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-122

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
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 Db 1 DWVCEWLKQWACNNL 16

RESULT 14

US-09-825-517A-138
 ; Sequence 138, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 138
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-138

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00014;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKHQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKQWACNNL 16

RESULT 15

US-09-825-517A-140
 ; Sequence 140, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140
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Query Match      79.7%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00014;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 DWVCEWLKHQFCNAL 16
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Db      1 DWVCEWLKQWACNIL 16
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Search completed: September 8, 2004, 15:58:39
Job time : 44.85 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-148
Perfect score: 108
Sequence: 1 DWVCEWLKHOWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A-COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B-COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A-COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B-COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTCUS-COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	56	51.9	71	4	US-09-621-976-5666
2	49	45.4	399	1	US-08-414-926A-5
3	49	45.4	399	2	US-08-926-922-5
4	49	45.4	399	3	US-09-253-682-5
5	49	45.4	399	3	US-09-527-657-5
6	49	45.4	399	4	US-09-892-100-5
7	49	45.4	423	3	US-08-943-714-9
8	47	43.5	367	4	US-09-296-840A-3
9	45.5	42.1	588	4	US-09-252-991A-31356
10	44	40.7	411	2	US-08-568-459A-20
11	44	40.7	411	2	US-08-487-826B-32
12	44	40.7	411	4	US-09-210-288-20
13	44	40.7	423	4	US-09-489-039A-7898
14	44	40.7	2710	2	US-08-568-459A-12
15	44	40.7	2710	2	US-08-487-826B-12
16	44	40.7	2710	4	US-09-210-288-12
17	44	40.7	3060	2	US-08-487-826B-14
18	43.5	40.3	381	4	US-09-721-870-28
19	43	39.8	24	1	US-08-484-635-86
20	43	39.8	24	2	US-08-484-631-86
21	43	39.8	24	2	US-08-827-570-86
22	43	39.8	725	4	US-10-164-595-30
23	42.5	39.4	525	3	US-09-273-163-5
24	42.5	39.4	627	3	US-09-273-163-4
25	42.5	39.4	660	3	US-09-273-163-6
26	42	38.9	360	4	US-09-417-039-4
27	42	38.9	362	4	US-09-296-840A-2

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28 42 38.9 469 4 US-09-252-991A-26991 Sequence 26991, A
29 42 38.9 677 3 US-09-061-768A-4 Sequence 4, Appli
30 42 38.9 677 4 US-09-764-246-4 Sequence 4, Appli
31 42 38.9 728 4 US-09-252-991A-22187 Sequence 22187, A
32 42 38.9 1129 4 US-09-252-991A-28552 Sequence 28552, A
33 42 38.9 1284 4 US-09-170-496D-294 Sequence 294, App
34 42 38.9 1284 4 US-09-364-425B-59 Sequence 59, Appl
35 41 38.0 63 4 US-09-497-491-47 Sequence 47, Appl
36 41 38.0 162 4 US-09-543-681A-21369 Sequence 21369, A
37 41 38.0 170 4 US-09-252-991A-21369 Sequence 6357, Ap
38 41 38.0 285 4 US-09-328-352-6357 Sequence 25095, A
39 41 38.0 382 4 US-09-252-991A-25095 Sequence 332, App
40 41 38.0 533 4 US-09-907-794A-332 Sequence 332, App
41 41 38.0 533 4 US-09-905-125A-332 Sequence 332, App
42 41 38.0 535 2 US-08-633-879C-4 Sequence 4, Appli
43 41 38.0 537 2 US-08-633-879C-2 Sequence 2, Appli
44 41 38.0 660 4 US-09-907-794A-28 Sequence 28, Appli
45 41 38.0 660 4 US-09-907-794A-28 Sequence 28, Appli

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ALIGNMENTS

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RESULT 1
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.Pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

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Query Match 51.9%; Score 56; DB 4; Length 71;
Best Local Similarity 53.8%; Pred No. 0.19;
Matches 7; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Qy 1 DWVCEWLKHOWFC 13
Db 54 DWNCVWEPHHWC 66

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RESULT 2
US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,926A
; FILING DATE: March 31, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-414-926A-5

Query Match 45.4%; Score 49; DB 1; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKHQW 11
||| |||
Db 307 WVCEPKHEW 316

RESULT 3
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-926-922-5

Query Match 45.4%; Score 49; DB 2; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;

Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
Qy 2 WVCEWLKHQW 11
||| |||
Db 307 WVCEPKHEW 316

RESULT 4
US-09-253-682-5
; Sequence 5, Application US/09253682
; Patent No. 6040170
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/253,682
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-253-682-5

Query Match 45.4%; Score 49; DB 3; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKHQW 11
||| |||
Db 307 WVCEPKHEW 316

RESULT 5
US-09-527-657-5
; Sequence 5, Application US/09527657
; Patent No. 6291236
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cseri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA

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;
;
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 45.4%; Score 49; DB 3; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEWLKHOW 11
Db 307 WVCEEPKHEW 316

RESULT 6
US-09-892-100-5
; Sequence 5, Application US/09892100
; Patent No. 6635477
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Luann Cserr Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,100
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserr, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
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;
;
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5

Query Match 45.4%; Score 49; DB 4; Length 399;
Best Local Similarity 70.0%; Pred. No. 12;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEWLKHOW 11
Db 307 WVCEEPKHEW 316

RESULT 7
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dammann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: NO. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 45.4%; Score 49; DB 3; Length 423;
Best Local Similarity 43.8%; Pred. No. 13;
Matches 7; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWCEWLKHOWFCNAL 16
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-09-210-288-20

Query Match 40.7%; Score 44; DB 4; Length 411;
Best Local Similarity 42.9%; Pred. No. 68;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKHQWFCNA 15
Db 229 WMTWEA--EWYCKA 240

RESULT 13
US-09-489-039A-7898
; Sequence 7898, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 7898
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
; US-09-489-039A-7898

Query Match 40.7%; Score 44; DB 4; Length 423;
Best Local Similarity 66.7%; Pred. No. 70;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 8 KHQWFCNAL 16
Db 328 RHQWFCERL 336

RESULT 14
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
```

ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/568,459A
FILING DATE: 07-DEC-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelsen, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
US-08-568-459A-12

Query Match 40.7%; Score 44; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 4.9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Oy 2 WVCEWLKHQWFCNA 15
|:|:|:|:|:|:|
Db 1138 WMTWA--EWYCKA 1149

RESULT 15
US-08-487-826B-12
Sequence 12, Application US/08487826B
Patent No. 5993827
GENERAL INFORMATION:
APPLICANT: Sim, Kim L.
APPLICANT: Chitnis, Chetan
APPLICANT: Miller, Louis H.
APPLICANT: Peterson, David S.
APPLICANT: Su, Kin-zhaun
APPLICANT: Welles, Thomas E.
TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Knobbe Martens Olson & Bear
STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,826B
FILING DATE: 10-SEP-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Israelsen, Ned
REGISTRATION NUMBER: 29,655
REFERENCE/DOCKET NUMBER: NIH121.001CP1
TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
US-08-487-826B-12

Query Match 40.7%; Score 44; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 4.9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Oy 2 WVCEWLKHQWFCNA 15
|:|:|:|:|:|:|
Db 1138 WMTWA--EWYCKA 1149

Search completed: September 8, 2004, 14:31:54
Job time : 13.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-147

Perfect score: 99

Sequence: 1 DWCEFIKSWFCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	99	100.0	16	11	US-09-825-517A-147
2	91	91.9	16	11	US-09-825-517A-75
3	91	91.9	16	11	US-09-825-517A-137
4	90	90.9	16	11	US-09-825-517A-80
5	90	90.9	16	11	US-09-825-517A-150
6	89	89.9	16	11	US-09-825-517A-59
7	88	88.9	16	11	US-09-825-517A-86
8	88	88.9	16	11	US-09-825-517A-127
9	86	86.9	16	11	US-09-825-517A-146
10	85	85.9	16	11	US-09-825-517A-65
11	85	85.9	16	11	US-09-825-517A-78
12	84	84.8	16	11	US-09-825-517A-49
13	84	84.8	16	11	US-09-825-517A-67
14	84	84.8	16	11	US-09-825-517A-126
15	84	84.8	16	11	US-09-825-517A-130

16	84	84.8	16	11	US-09-825-517A-151	Sequence 151, App
17	83	83.8	16	11	US-09-825-517A-76	Sequence 76, App1
18	83	83.8	16	11	US-09-825-517A-100	Sequence 100, App
19	83	83.8	16	11	US-09-825-517A-104	Sequence 104, App
20	83	83.8	16	11	US-09-825-517A-105	Sequence 105, App
21	83	83.8	16	11	US-09-825-517A-141	Sequence 141, App
22	83	83.8	16	11	US-09-825-517A-148	Sequence 148, App
23	82	82.8	16	11	US-09-825-517A-56	Sequence 56, App1
24	82	82.8	16	11	US-09-825-517A-116	Sequence 116, App
25	82	82.8	16	11	US-09-825-517A-139	Sequence 139, App
26	81	81.8	16	11	US-09-825-517A-113	Sequence 113, App
27	81	81.8	16	11	US-09-825-517A-128	Sequence 128, App
28	80	80.8	16	11	US-09-825-517A-109	Sequence 109, App
29	80	80.8	16	11	US-09-825-517A-118	Sequence 118, App
30	80	80.8	16	11	US-09-825-517A-123	Sequence 123, App
31	79	79.8	16	11	US-09-825-517A-50	Sequence 50, App1
32	79	79.8	16	11	US-09-825-517A-68	Sequence 68, App1
33	79	79.8	16	11	US-09-825-517A-125	Sequence 125, App
34	79	79.8	16	11	US-09-825-517A-135	Sequence 135, App
35	79	79.8	16	11	US-09-825-517A-142	Sequence 142, App
36	78	78.8	16	11	US-09-825-517A-107	Sequence 107, App
37	78	78.8	16	11	US-09-825-517A-112	Sequence 112, App
38	78	78.8	16	11	US-09-825-517A-114	Sequence 114, App
39	78	78.8	16	11	US-09-825-517A-122	Sequence 122, App
40	78	78.8	16	11	US-09-825-517A-133	Sequence 133, App
41	78	78.8	16	11	US-09-825-517A-140	Sequence 140, App
42	78	78.8	16	11	US-09-825-517A-144	Sequence 144, App
43	77	77.8	16	11	US-09-825-517A-88	Sequence 88, App1
44	77	77.8	16	11	US-09-825-517A-119	Sequence 119, App
45	77	77.8	16	11	US-09-825-517A-149	Sequence 149, App

ALIGNMENTS

RESULT 1

US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match 100.0%; Score 99; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 DWCEFIKSWFCNVL 16

Db 1 DWCEFIKSWFCNVL 16

RESULT 2

US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75
```

```
Query Match          91.9%; Score 91; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.3e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFIKSWFCNVL 16
   ||||| |||||
Db 1 DWVCEFFKQWFCNVL 16
```

```
RESULT 3
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137
```

```
Query Match          91.9%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFIKSWFCNVL 16
   ||||| |||||
Db 1 DWVCEFFKSWYCNIL 16
```

```
RESULT 4
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80
```

```
Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.3e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFIKSWFCNVL 16
   ||||| |||||
Db 1 DWVCEFIKQWFCNVL 16
```

```
RESULT 5
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150
```

```
Query Match          90.9%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.3e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 DWVCEFIKSWFCNVL 16
   ||||| |||||
Db 1 DWVCEFFRQWFCNVL 16
```

```
RESULT 6
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match      89.9%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.5e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCEYFKQWFCNVL 16

RESULT 7
US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match      88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.3e-06;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCEFFKQWFCNLL 16

RESULT 8
US-09-825-517A-127
; Sequence 127, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 127
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-127

Query Match      88.9%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.3e-06;
```

```
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCELLKNQWFCNVL 16

RESULT 9
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      86.9%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCEWLKQWFCNSL 16

RESULT 10
US-09-825-517A-65
; Sequence 65, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 65
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-65

Query Match      85.9%; Score 85; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 1.7e-05;
Matches 11; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFIKQWFCNVL 16
Db 1 DWVCELVKQWYCNIL 16
```

```

RESULT 11
US-09-825-517A-78
; Sequence 78, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 78
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-78

```

```

Query Match      85.9%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.7e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSWFCNVL 16
| | | | | | | | | | | | | |
DB 1 DWVCEFMKHWFCNPL 16

```

```

RESULT 12
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

```

```

Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSWFCNVL 16
| | | | | | | | | | | | | |
DB 1 DWVCEFLKQWACNVL 16

```

```

RESULT 13
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

```

```

Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.4e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSWFCNVL 16
| | | | | | | | | | | | | |
DB 1 DWVCEFYKSWQNCNL 16

```

```

RESULT 14
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

```

```

Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.4e-05;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 DWVCEFIKSWFCNVL 16
| | | | | | | | | | | | | |
DB 1 DWVCEWLKNQWQNCNL 16

```

```

RESULT 15
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130
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Query Match      84.8%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2.4e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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Qy      1 DWVCEFIKSONFCNVL 16
        |||||:|:|||||:|
Db      1 DWVCEWFKAQWFCNML 16
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Search completed: September 8, 2004, 15:58:38
Job time : 43.85 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-147
Perfect score: 99
Sequence: 1 DWCEFIKQWFCNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	42.5	42.9	322	1	US-08-118-270-36
2	42.5	42.9	322	5	PCT-US93-08528-36
3	42.5	42.9	425	1	US-07-657-769B-69
4	42.5	42.9	425	1	US-08-037-938-7
5	42.5	42.9	425	1	US-08-313-553-13
6	42.5	42.9	425	1	US-07-789-184-220
7	42.5	42.9	425	1	US-08-476-000-7
8	42.5	42.9	425	1	US-08-475-263-220
9	42.5	42.9	425	1	US-08-472-840-7
10	42.5	42.9	425	1	US-08-485-886-220
11	42.5	42.9	425	2	US-08-477-362-220
12	42.5	42.9	425	2	US-08-477-134-220
13	42.5	42.9	425	2	US-08-911-320A-3
14	42.5	42.9	425	2	US-08-476-976-7
15	42.5	42.9	425	2	US-08-742-440A-7
16	42.5	42.9	425	2	US-08-560-098A-57
17	42.5	42.9	425	3	US-08-767-993-13
18	42.5	42.9	425	3	US-08-473-489A-220
19	42.5	42.9	425	3	US-08-474-410-7
20	42.5	42.9	425	3	US-08-485-695-220
21	42.5	42.9	425	3	US-09-217-101-3
22	42.5	42.9	425	3	US-08-018-760-220
23	42.5	42.9	425	3	US-08-486-673B-7
24	42.4	42.4	536	4	US-09-292-225-21
25	42.4	42.4	555	4	US-09-292-225-15
26	42.4	42.4	555	4	US-09-292-225-18
27	41.4	41.4	272	4	US-09-328-352-6959

28 41 41.4 401 4 US-09-252-991A-17272 Sequence 17272, A
29 40 40.4 21 4 US-09-337-227C-27 Sequence 27, Appl
30 40 40.4 21 4 US-09-723-251A-27 Sequence 27, Appl
31 40 40.4 222 4 US-09-328-352-6740 Sequence 6740, Ap
32 40 40.4 280 4 US-09-489-039A-7566 Sequence 7566, Ap
33 40 40.4 399 1 US-08-414-926A-5 Sequence 5, Appli
34 40 40.4 399 2 US-08-926-922-5 Sequence 5, Appli
35 40 40.4 399 3 US-09-253-682-5 Sequence 5, Appli
36 40 40.4 399 3 US-09-527-657-5 Sequence 5, Appli
37 40 40.4 399 4 US-09-892-100-5 Sequence 5, Appli
38 40 40.4 413 4 US-09-328-352-7815 Sequence 7815, Ap
39 40 40.4 480 2 US-08-828-488-8 Sequence 8, Appli
40 40 40.4 480 4 US-09-239-689A-8 Sequence 336, App
41 40 40.4 480 4 US-09-702-705-336 Sequence 336, App
42 40 40.4 480 4 US-09-736-457-336 Sequence 336, App
43 40 40.4 480 4 US-09-614-124B-336 Sequence 336, App
44 40 40.4 480 4 US-09-671-325-336 Sequence 336, App
45 40 40.4 480 4 US-09-589-184-336 Sequence 336, App

ALIGNMENTS

RESULT 1
US-08-118-270-36
; Sequence 36, Application US/08118270
; Patent No. 5508384
; GENERAL INFORMATION:
; APPLICANT: Murphy, Randall B.
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/118,270
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 322 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-118-270-36

Query Match 42.9%; Score 42.5; DB 1; Length 322;
Best Local Similarity 30.0%; Pred. No. 38;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
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Db 167 DWQFSELCRFVTAIFYCNM 186

RESULT 5
US-08-313-553-13
; Sequence 13, Application US/08313553
; Patent No. 5641650
; GENERAL INFORMATION:
; APPLICANT: TURNER, George J.
; APPLICANT: BETLACH, Mary C.
; TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS POLYPEPTIDES
; TITLE OF INVENTION: IN HALOBACTERIA
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Walter H. Dreger
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/313,553
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: US/08/038,662
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Dreger, Walter H.
; REGISTRATION NUMBER: 24,190
; REFERENCE/DOCKET NUMBER: A-57669/WH
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-313-553-13

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
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Db 161 DWQFSELCRFVTAIFYCNM 180

RESULT 6
US-07-789-184-220
; Sequence 220, Application US/07789184
; Patent No. 5688768
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/789,184
; FILING DATE: 19911107
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-789-184-220

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
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Db 167 DWQFSELCRFVTAIFYCNM 186

RESULT 7
US-08-476-000-7
; Sequence 7, Application US/08476000
; Patent No. 5716789
; GENERAL INFORMATION:
; APPLICANT: SUNDELIN, JOHAN
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS
; TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
; NUMBER OF SEQUENCES: 63
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/476,000
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER:
; FILING DATE: 25-JAN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: ADLER, REID G.
; REGISTRATION NUMBER: 30,988

REFERENCE/DOCKET NUMBER: 2803-0006.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-476-000-7

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKSQWFCNV 15
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Db 167 DWQFGSELCRFVTAIFYCNM 186

RESULT 8

US-08-475-263-220
Sequence 220, Application US/08475263
Patent No. 5759994

GENERAL INFORMATION:
APPLICANT: COUGHLIN, SHAUN R.
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
RELATED PHARMACEUTICALS
NUMBER OF SEQUENCES: 223

CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave., NW
CITY: Washington
STATE: DC

COUNTRY: USA

ZIP: 20006-1812

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/475,263

FILING DATE: 07-JUN-1995

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: MURASHIGE, KATE H.

REGISTRATION NUMBER: 29,959

REFERENCE/DOCKET NUMBER: 22000-20502.03

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 887-1500

TELEFAX: (202) 887-0763

TELEX: 90-4030

INFORMATION FOR SEQ ID NO: 220:

SEQUENCE CHARACTERISTICS:

LENGTH: 425 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-475-263-220

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKSQWFCNV 15
|||:|:|:|:
Db 167 DWQFGSELCRFVTAIFYCNM 186

RESULT 9

US-08-472-840-7
Sequence 7, Application US/08472840
Patent No. 5763575

GENERAL INFORMATION:

APPLICANT: SUNDELIN, JOHAN

APPLICANT: SCARBOROUGH, ROBERT M.

TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS

TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR

NUMBER OF SEQUENCES: 63

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORRISON & FOERSTER

STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20006-1812

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/472,840

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/390,301

FILING DATE: 25-JAN-1995

ATTORNEY/AGENT INFORMATION:

NAME: ADLER, REID G.

REGISTRATION NUMBER: 30,988

REFERENCE/DOCKET NUMBER: 2803-0006.20

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 887-1500

TELEFAX: (202) 887-0763

TELEX: 90-4030

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 425 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-472-840-7

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKSQWFCNV 15
|||:|:|:|:
Db 167 DWQFGSELCRFVTAIFYCNM 186

RESULT 10

US-08-485-886-220

Sequence 220, Application US/08485886

Patent No. 5798248

GENERAL INFORMATION:

APPLICANT: COUGHLIN, SHAUN R.

APPLICANT: SCARBOROUGH, ROBERT M.

TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND

RELATED PHARMACEUTICALS

NUMBER OF SEQUENCES: 223

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORRISON & FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: California

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,886
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-485-886-220

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred.No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186

RESULT 11
US-08-477-362-220
; Sequence 220, Application US/08477362
; Patent No. 5849507
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,362
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
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;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-362-220

Query Match 42.9%; Score 42.5; DB 1; Length 425;
Best Local Similarity 30.0%; Pred.No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186

RESULT 11
US-08-477-362-220
; Sequence 220, Application US/08477362
; Patent No. 5849507
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,362
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
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;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-362-220

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred.No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186

RESULT 12
US-08-477-134-220
; Sequence 220, Application US/08477134
; Patent No. 5856448
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,134
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-477-134-220

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred.No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

QY 1 DW-----VCBFIKSQWFCNV 15
Db 167 DWQFSELRCRFVTAIFYCNM 186

RESULT 13
US-08-911-320A-3
; Sequence 3, Application US/08911320A
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Patent No. 5869633
GENERAL INFORMATION:
APPLICANT: INCYTE PHARMACEUTICALS, INC.
TITLE OF INVENTION: THROMBIN RECEPTOR HOMOLOGY
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/911.320A
FILING DATE: August 14, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/467,125
FILING DATE: 6-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0041-1 DIV
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-845-4170
TELEFAX: 650-845-4166
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-911-320A-3

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 3; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
||| : : : : :
Db 167 DWQFGSELRCFVTAIFYCNM 186

RESULT 14
US-08-476-976-7
Sequence 7, Application US/08476976
Patent No. 5874400
GENERAL INFORMATION:
APPLICANT: SUNDELIN, JOHAN
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT CL40 RECEPTOR, ITS AGONISTS
TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,976
FILING DATE: 07-JUN-1995
CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/390,301
FILING DATE: 25-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADLER, REID G.
REGISTRATION NUMBER: 30,988
REFERENCE/DOCKET NUMBER: 2803-0006.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-476-976-7

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

Qy 1 DW-----VCEFIKQWFCNV 15
||| : : : : :
Db 167 DWQFGSELRCFVTAIFYCNM 186

RESULT 15
US-08-742-440A-7
Sequence 7, Application US/08742440A
Patent No. 5892014
GENERAL INFORMATION:
APPLICANT: Coughlin, Shaun
APPLICANT: Ishihari, Hiroaki
APPLICANT: Connolly, Andrew
TITLE OF INVENTION: Protease Activated Receptor
TITLE OF INVENTION: 3 and Uses Thereof
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bozicevic & Reed, LLP
STREET: 285 Hamilton Avenue, Suite 200
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/742,440A
FILING DATE: 30-OCT-1996
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sherwood, Pamela J
REGISTRATION NUMBER: 36,677
REFERENCE/DOCKET NUMBER: UCAL/060PAT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3400
TELEFAX: 650 327-3231
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-742-440A-7

Query Match 42.9%; Score 42.5; DB 2; Length 425;
Best Local Similarity 30.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 3; Indels 5; Gaps 1;

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QY      1 DW-----VCEFIKSWFCNV 15
          || : | : : || :
Db     167 DWQFGSELCRFVTAAFYCNM 186
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Search completed: September 8, 2004, 14:31:54
Job time : 14.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-146
Perfect score: 104
Sequence: 1 DWCEWLKQWFCNSL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-146
2	96	92.3	16	11	US-09-825-517A-141
3	96	92.3	16	11	US-09-825-517A-144
4	96	92.3	16	11	US-09-825-517A-148
5	92	88.5	16	11	US-09-825-517A-130
6	90	86.5	16	11	US-09-825-517A-68
7	90	86.5	16	11	US-09-825-517A-126
8	86	82.7	16	11	US-09-825-517A-54
9	86	82.7	16	11	US-09-825-517A-138
10	86	82.7	16	11	US-09-825-517A-143
11	86	82.7	16	11	US-09-825-517A-147
12	85	81.7	16	11	US-09-825-517A-103
13	85	81.7	16	11	US-09-825-517A-112
14	85	81.7	16	11	US-09-825-517A-122
15	85	81.7	16	11	US-09-825-517A-125

16	85	81.7	16	11	US-09-825-517A-140	Sequence 140, App
17	85	81.7	16	11	US-09-825-517A-142	Sequence 142, App
18	83	79.8	16	11	US-09-825-517A-115	Sequence 115, App
19	82	78.8	16	11	US-09-825-517A-56	Sequence 56, App
20	82	78.8	16	11	US-09-825-517A-59	Sequence 59, Appl
21	82	78.8	16	11	US-09-825-517A-78	Sequence 78, Appl
22	82	78.8	16	11	US-09-825-517A-101	Sequence 101, App
23	82	78.8	16	11	US-09-825-517A-127	Sequence 127, App
24	81	77.9	16	11	US-09-825-517A-137	Sequence 137, App
25	80	76.9	16	11	US-09-825-517A-75	Sequence 75, Appl
26	80	76.9	16	11	US-09-825-517A-86	Sequence 86, Appl
27	80	76.9	16	11	US-09-825-517A-105	Sequence 105, App
28	80	76.9	16	11	US-09-825-517A-109	Sequence 109, App
29	80	76.9	16	11	US-09-825-517A-117	Sequence 117, App
30	80	76.9	16	11	US-09-825-517A-150	Sequence 150, App
31	79	76.0	16	11	US-09-825-517A-113	Sequence 113, App
32	77	74.0	16	11	US-09-825-517A-80	Sequence 80, Appl
33	76	73.1	16	11	US-09-825-517A-65	Sequence 65, Appl
34	76	73.1	16	11	US-09-825-517A-100	Sequence 100, App
35	76	73.1	16	11	US-09-825-517A-139	Sequence 139, App
36	75	72.1	16	11	US-09-825-517A-49	Sequence 49, Appl
37	75	72.1	16	11	US-09-825-517A-151	Sequence 151, App
38	74	71.2	16	11	US-09-825-517A-67	Sequence 67, Appl
39	74	71.2	16	11	US-09-825-517A-77	Sequence 77, Appl
40	74	71.2	16	11	US-09-825-517A-114	Sequence 114, App
41	73	70.2	16	11	US-09-825-517A-90	Sequence 90, Appl
42	73	70.2	16	11	US-09-825-517A-95	Sequence 95, Appl
43	73	70.2	16	11	US-09-825-517A-104	Sequence 104, App
44	73	70.2	16	11	US-09-825-517A-128	Sequence 128, App
45	73	70.2	16	11	US-09-825-517A-149	Sequence 149, App

ALIGNMENTS

RESULT 1
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qv 1 DWCEWLKQWFCNSL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEWLKQWFCNSL 16

RESULT 2
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
|||||:|||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 3
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match 92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
|||||:|||||
Db 1 DWVCEWLKQWFCNSL 16

RESULT 4
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.5e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
|||||:|||||
Db 1 DWVCEWLKQWFCNAL 16

RESULT 5
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match 88.5%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.8e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
|||||:|||||
Db 1 DWVCEWLKQWFCNML 16

RESULT 6
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match      86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.3e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWFKQWFCNPL 16

RESULT 7
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match      86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.3e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWFCNVL 16

RESULT 8
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWACNWL 16

RESULT 9
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWACNWL 16

RESULT 10
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00011;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWFCNSL 16
Db 1 DWVCEWLKQWACNWL 16
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RESULT 11
 US-09-825-517A-147
 ; Sequence 147, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 147
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-147

Query Match 82.7%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00011;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNSL 16
 |||||:|||||
 Db 1 DWVCEFIKSWQFCNVL 16

RESULT 12
 US-09-825-517A-103
 ; Sequence 103, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 103
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-103

Query Match 81.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 80.0%; Pred. No. 0.00015;
 Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNS 15
 :|||||:||||
 Db 1 NWVCEWLKPQWCNS 15

RESULT 13
 US-09-825-517A-112
 ; Sequence 112, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 112
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-112

Query Match 81.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00015;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNSL 16
 |||||:|||||
 Db 1 DWVCEWLKQWACNIL 16

RESULT 14
 US-09-825-517A-122
 ; Sequence 122, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 122
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-122

Query Match 81.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00015;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKSWQFCNSL 16
 |||||:|||||
 Db 1 DWVCEWLKQWACNIL 16

RESULT 15
 US-09-825-517A-125
 ; Sequence 125, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; PRIOR FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      81.7%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00015;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      1 DWVCEWLKQWFCNSL 16
      |||||
Db      1 DWVCEWLKQWACNVL 16
      |||||

Search completed: September 8, 2004, 15:58:38
Job time : 43.85 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-146

Perfect score: 104
Sequence: 1 DWCEWLKQWFCNSL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:**

- 1: /cgn2_6/ptodata/2/iaa/5A.COMB.pap.*
- 2: /cgn2_6/ptodata/2/iaa/5B.COMB.pap.*
- 3: /cgn2_6/ptodata/2/iaa/6A.COMB.pap.*
- 4: /cgn2_6/ptodata/2/iaa/6B.COMB.pap.*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pap.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	48	46.2	646	4	US-09-252-991A-23299	Sequence 23299, A
2	47	45.2	71	4	US-09-621-976-5666	Sequence 5666, Ap
3	46	44.2	170	4	US-09-252-991A-21369	Sequence 21369, A
4	45	44.2	423	3	US-08-943-714-9	Sequence 9, Appl
5	45.5	43.8	381	4	US-09-721-870-28	Sequence 28, Appl
6	44.5	42.8	89	4	US-09-621-976-7155	Sequence 7155, Ap
7	44	42.3	24	1	US-08-484-635-86	Sequence 86, Appl
8	44	42.3	24	2	US-08-484-631-86	Sequence 86, Appl
9	44	42.3	24	2	US-08-827-570-86	Sequence 86, Appl
10	44	42.3	1284	4	US-03-170-436D-294	Sequence 294, App
11	44	42.3	1284	4	US-03-364-425B-59	Sequence 59, Appl
12	43.5	41.8	92	4	US-09-107-532A-4069	Sequence 4069, Ap
13	43	41.3	411	2	US-08-568-459A-20	Sequence 20, Appl
14	43	41.3	411	2	US-08-487-826B-32	Sequence 32, Appl
15	43	41.3	411	4	US-09-210-288-20	Sequence 20, Appl
16	43	41.3	2710	2	US-08-568-459A-12	Sequence 12, Appl
17	43	41.3	2710	2	US-08-487-826B-12	Sequence 12, Appl
18	43	41.3	2710	4	US-09-210-288-12	Sequence 12, Appl
19	43	41.3	3060	2	US-08-487-826B-14	Sequence 14, Appl
20	42.5	40.9	20	2	US-07-894-063A-6	Sequence 6, Appl
21	42.5	40.9	30	1	US-08-262-037-16	Sequence 16, Appl
22	42.5	40.9	38	1	US-08-262-037-95	Sequence 95, Appl
23	42.5	40.9	47	1	US-08-262-037-96	Sequence 96, Appl
24	42.5	40.9	106	3	US-08-444-818-24	Sequence 24, Appl
25	42.5	40.9	176	3	US-08-444-818-28	Sequence 28, Appl
26	42.5	40.9	360	4	US-08-850-328-4	Sequence 4, Appl
27	42.5	40.9	516	3	US-08-867-611-6	Sequence 6, Appl

28 42.5 40.9 516 4 US-09-690-359-6
29 42.5 40.9 516 5 PCT-US92-06965A-11
30 42.5 40.9 798 3 US-08-867-611-36
31 42.5 40.9 798 4 US-09-690-359-36
32 42.5 40.9 859 3 US-08-444-818-30
33 42.5 40.9 1040 4 US-10-104-966-9
34 42.5 40.9 1786 3 US-08-444-818-54
35 42.5 40.9 1844 4 US-08-851-567B-53
36 42.5 40.9 2261 3 US-08-444-818-66
37 42.5 40.9 2436 3 US-08-444-818-75
38 42.5 40.9 2504 4 US-08-851-567B-12
39 42.5 40.9 2504 4 US-09-817-514A-8
40 42.5 40.9 2772 3 US-08-444-818-89
41 42.5 40.9 2894 2 US-08-466-975A-23
42 42.5 40.9 2894 2 US-08-391-671A-23
43 42.5 40.9 2894 3 US-08-467-902A-23
44 42.5 40.9 2894 3 US-09-275-265-23
45 42.5 40.9 2894 4 US-09-941-611-23

ALIGNMENTS

RESULT 1
US-09-252-991A-23299
; Sequence 23299, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252.991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 23299

; LENGTH: 646

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23299

Query Match 46.2%; Score 48; DB 4; Length 646;

Best Local Similarity 40.0%; Pred. No. 27;

Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCEWLKQWFCNSL 16

Db 90 WPAVWVVRWVWCGSM 104

RESULT 2

US-09-621-976-5666

; Sequence 5666, Application US/09621976

; Patent No. 6639063

; GENERAL INFORMATION:

; APPLICANT: Dumas Milne Edwards, J.B.

; APPLICANT: Jobert, S.

; APPLICANT: Giordano, J.Y.

; TITLE OF INVENTION: ESTS and Encoded Human Proteins.

; FILE REFERENCE: GENSET.054PR2

; CURRENT APPLICATION NUMBER: US/09/621,976

; CURRENT FILING DATE: 2000-07-21

; NUMBER OF SEQ ID NOS: 19335

; SOFTWARE: Patent.pm

; SEQ ID NO 5666

; LENGTH: 71

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

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; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match 45.2%; Score 47; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 3.7;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCEWLKSQWFC 13
Db 54 DMCNVCWEPHHWLC 66

RESULT 3
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match 44.2%; Score 46; DB 4; Length 170;
Best Local Similarity 60.0%; Pred. No. 13;
Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKSQW 11
Db 36 WLCWALASQW 45

RESULT 4
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berk, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathiesen, Thomas Erik
; APPLICANT: Dambmann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 61875780 No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
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; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 44.2%; Score 46; DB 3; Length 423;
Best Local Similarity 37.5%; Pred. No. 34;
Matches 6; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCEWLKSQWFCNSL 16
Db 340 DMCNWLGNVEVANAV 355

RESULT 5
US-09-721-870-28
; Sequence 28, Application US/09721870
; Patent No. 6632621
; GENERAL INFORMATION:
; APPLICANT: Lowery, David E.
; APPLICANT: Geary, Timothy G.
; APPLICANT: Kubiak, Teresa M.
; APPLICANT: Larsen, Martha J.
; TITLE OF INVENTION: MODULATORS OF G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 28341/6223
; CURRENT APPLICATION NUMBER: US/09/721,870
; CURRENT FILING DATE: 2000-11-24
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 28
; LENGTH: 381
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-721-870-28

Query Match 43.8%; Score 45.5; DB 4; Length 381;
Best Local Similarity 34.8%; Pred. No. 36;
Matches 8; Conservative 2; Mismatches 2; Indels 11; Gaps 1;

QY 2 WVC-----EWLKSQWFC 13
Db 80 WICLPTLLINSIFTEWLWGQFFC 102

RESULT 6
US-09-621-976-7155
; Sequence 7155, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 7155
; LENGTH: 89
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7155

Query Match 42.3%; Score 44.5; DB 4; Length 89;
Best Local Similarity 30.8%; Pred. No. 11;
Matches 8; Conservative 2; Mismatches 5; Indels 11; Gaps 1;

Qy 1 DWCEWLKSWQ-----FNS 15
Db 45 DWLADWVKVGTGKHVSSQHQFCTS 70

RESULT 7
US-08-484-635-86
; Sequence 86, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-631-86

Query Match 42.3%; Score 44; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEWLKSWQFC 13
Db 10 EYVCQWGPDTWLC 22

RESULT 9
US-08-827-570-86
; Sequence 86, Application US/08827570
; Patent No. 5986047
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
```

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Townsend and Townsend and Crew
;; STREET: One Market Plaza, Steuart Street Tower
;; CITY: San Francisco
;; STATE: California
;; COUNTRY: USA
;; ZIP: 94105-1492
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/827,570
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/484,635
;; FILING DATE: 07-JUN-1995
;; APPLICATION NUMBER: US 08/155,940
;; FILING DATE: 19-NOV-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Garrett-Wackowski, Eugenia
;; REGISTRATION NUMBER: 37,330
;; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (415) 543-9600
;; TELEFAX: (415) 543-5043
;; INFORMATION FOR SEQ ID NO: 86:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 24 amino acids
;; TYPE: amino acid
;; STRANDEDNESS:
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
US-08-827-570-86

Query Match 42.3%; Score 44; DB 2; Length 24;
Best Local Similarity 38.5%; Pred. No. 3.3;
Matches 5; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 DMVCEWLKQWFC 13
::||:|
Db 10 EYVQWGPDTWLC 22

RESULT 10
US-09-170-496D-294
; Sequence 294, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 294
; LENGTH: 1284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-170-496D-294

Query Match 42.3%; Score 44; DB 4; Length 1284;
Best Local Similarity 40.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCEWLKQWFCNSL 16
|||::|

Db 258 WVHEWVTSNWISTAV 272

RESULT 11
US-09-364-425B-59
; Sequence 59, Application US/09364425B
; Patent No. 6653086
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; APPLICANT: Lowitz, Kevin P.
; APPLICANT: Chen, Ruoping
; TITLE OF INVENTION: Endogenous, Constitutively Activated G Protein-Coupled Orphan Receptor
; FILE REFERENCE: Aren0047
; CURRENT APPLICATION NUMBER: US/09/364,425B
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: 60/094,879
; PRIOR FILING DATE: 1998-07-31
; PRIOR APPLICATION NUMBER: 60/106,300
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 60/110,906
; PRIOR FILING DATE: 1998-12-04
; PRIOR APPLICATION NUMBER: 60/121,851
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 59
; LENGTH: 1284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-364-425B-59

Query Match 42.3%; Score 44; DB 4; Length 1284;
Best Local Similarity 40.0%; Pred. No. 2.1e+02;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCEWLKQWFCNSL 16
|||::|
Db 258 WVHEWVTSNWISTAV 272

RESULT 12
US-09-107-532A-4069
; Sequence 4069, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:

```

; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 4069:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...92
; SEQUENCE DESCRIPTION: SEQ ID NO: 4069:
US-09-107-532A-4069

Query Match 41.8%; Score 43.5; DB 4; Length 92;
Best Local Similarity 61.5%; Pred. No. 16;
Matches 8; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

Qy 4 CEWLKQWFCNSL 16
Db 8 CHWLSTQW-SNSL 19

RESULT 13
US-08-568-459A-20
; Sequence 20, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-0176
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-487-826B-32

Query Match 41.3%; Score 43; DB 2; Length 411;
Best Local Similarity 35.7%; Pred. No. 90;
Matches 5; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

Qy 2 WVCWLKQWFCNS 15
Db 229 WMTW--AEWYCKA 240

RESULT 14
US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-487-826B-32

Query Match 41.3%; Score 43; DB 2; Length 411;
Best Local Similarity 35.7%; Pred. No. 90;
Matches 5; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

Qy 2 WVCWLKQWFCNS 15
Db 229 WMTW--AEWYCKA 240

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RESULT 15
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-09-210-288-20

Query Match 41.3%; Score 43; DB 4; Length 411;
Best Local Similarity 35.7%; Pred. NO. 90;
Matches 5; Conservative 5; Mismatches 2; Indels 2; Gaps 1;

Qy 2 WVCWLKSWFCNS 15
|:|:|:|:|:
Db 229 WMTW-AEWYCKA 240

Search completed: September 8, 2004, 14:31:53
Job time : 13.3 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-145

Perfect score: 102

Sequence: 1 DWVCNLFKNQWFCDL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	100.0	16	11	US-09-825-517A-145
2	98	96.1	16	11	US-09-825-517A-38
3	96	94.1	16	11	US-09-825-517A-48
4	95	93.1	16	11	US-09-825-517A-37
5	95	93.1	16	11	US-09-825-517A-42
6	95	93.1	16	11	US-09-825-517A-45
7	95	93.1	16	11	US-09-825-517A-52
8	95	93.1	16	11	US-09-825-517A-58
9	95	93.1	16	11	US-09-825-517A-62
10	95	93.1	16	11	US-09-825-517A-74
11	95	93.1	16	11	US-09-825-517A-120
12	95	93.1	16	11	US-09-825-517A-121
13	95	93.1	16	11	US-09-825-517A-124
14	95	93.1	16	11	US-09-825-517A-129
15	94	92.2	16	11	US-09-825-517A-53

16	94	92.2	16	11	US-09-825-517A-73	Sequence 73, Appl
17	94	92.2	16	11	US-09-825-517A-77	Sequence 77, Appl
18	94	92.2	16	11	US-09-825-517A-81	Sequence 81, Appl
19	94	92.2	16	11	US-09-825-517A-83	Sequence 83, Appl
20	94	92.2	16	11	US-09-825-517A-136	Sequence 136, Appl
21	93	91.2	16	11	US-09-825-517A-39	Sequence 39, Appl
22	93	91.2	16	11	US-09-825-517A-47	Sequence 47, Appl
23	93	91.2	16	11	US-09-825-517A-57	Sequence 57, Appl
24	93	91.2	16	11	US-09-825-517A-98	Sequence 98, Appl
25	93	91.2	16	11	US-09-825-517A-131	Sequence 131, Appl
26	93	91.2	16	11	US-09-825-517A-134	Sequence 134, Appl
27	92	90.2	16	11	US-09-825-517A-46	Sequence 46, Appl
28	92	90.2	16	11	US-09-825-517A-132	Sequence 132, Appl
29	91	89.2	16	11	US-09-825-517A-43	Sequence 43, Appl
30	90	88.2	16	11	US-09-825-517A-50	Sequence 50, Appl
31	90	88.2	16	11	US-09-825-517A-69	Sequence 69, Appl
32	90	88.2	16	11	US-09-825-517A-84	Sequence 84, Appl
33	90	88.2	16	11	US-09-825-517A-119	Sequence 119, Appl
34	90	88.2	16	11	US-09-825-517A-128	Sequence 128, Appl
35	89	87.3	16	11	US-09-825-517A-61	Sequence 61, Appl
36	89	87.3	16	11	US-09-825-517A-64	Sequence 64, Appl
37	89	87.3	16	11	US-09-825-517A-66	Sequence 66, Appl
38	89	87.3	16	11	US-09-825-517A-99	Sequence 99, Appl
39	88	86.3	16	11	US-09-825-517A-40	Sequence 40, Appl
40	88	86.3	16	11	US-09-825-517A-41	Sequence 41, Appl
41	88	86.3	16	11	US-09-825-517A-71	Sequence 71, Appl
42	88	86.3	16	11	US-09-825-517A-108	Sequence 108, Appl
43	87	85.3	16	11	US-09-825-517A-79	Sequence 79, Appl
44	87	85.3	16	11	US-09-825-517A-89	Sequence 89, Appl
45	87	85.3	16	11	US-09-825-517A-92	Sequence 92, Appl

ALIGNMENTS

RESULT 1

US-09-825-517A-145
; Sequence 145, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 145
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-145

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 DWVCNLFKNQWFCDL 16
Db 1 DWVCNLFKNQWFCDL 16

RESULT 2

US-09-825-517A-38
; Sequence 38, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

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; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-38

Query Match          96.1%; Score 98; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 4.7e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDL 15

RESULT 3
US-09-825-517A-48
; Sequence 48, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 48
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-48

Query Match          94.1%; Score 96; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9e-07;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDMA 16

RESULT 4
US-09-825-517A-37
; Sequence 37, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-37

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDL 15

RESULT 5
US-09-825-517A-42
; Sequence 42, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 42
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 6
US-09-825-517A-45
; Sequence 45, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 16
; TYPE: PRT
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-45
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Best Local Similarity 86.7%; Pred. No. 1.2e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
Db 1 DWICNLFKNQWFCDI 15

RESULT 7
US-09-825-517A-52
; Sequence 52, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52
Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 8
US-09-825-517A-58
; Sequence 58, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-58
Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
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Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 9
US-09-825-517A-62
; Sequence 62, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 62
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-62
Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 10
US-09-825-517A-74
; Sequence 74, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 74
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-74
Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
Db 1 DWVCNLFKNQWFCDV 15

RESULT 11
US-09-825-517A-79
; Sequence 79, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 79
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-79
Query Match          93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
Db 1 DWVCNLFKNQWFCDV 15
```

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RESULT 11
US-09-825-517A-120
; Sequence 120, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-120

Query Match      93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 12
US-09-825-517A-121
; Sequence 121, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-121

Query Match      93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 1.2e-06;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWICNLFKNQWFCDI 15

RESULT 13
US-09-825-517A-124
; Sequence 124, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C

```

```

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-124

Query Match      93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 14
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match      93.1%; Score 95; DB 11; Length 16;
Best Local Similarity 93.3%; Pred. No. 1.2e-06;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
DB 1 DWVCNLFKNQWFCDV 15

RESULT 15
US-09-825-517A-53
; Sequence 53, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

```

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-53
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```
Query Match          92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.7e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 DWVCNLFKNQWFCD 14
         |||||
Db       1 DWVCNLFKNQWFCD 14
```

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Search completed: September 8, 2004, 15:58:38
Job time : 43.85 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-145
Perfect score: 102
Sequence: 1 DWVCNLFKNQWFCDL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	45.1	478	4	US-09-137-223A-2
2	45	44.1	215	3	US-09-131-028A-3
3	45	44.1	215	3	US-09-131-028A-13
4	44	43.1	612	4	US-09-252-991A-17516
5	43	42.2	21	4	US-09-337-227C-27
6	43	42.2	21	4	US-09-723-251A-27
7	43	42.2	480	2	US-08-828-488-8
8	43	42.2	480	4	US-09-299-689A-8
9	43	42.2	480	4	US-09-702-705-336
10	43	42.2	480	4	US-09-736-457-336
11	43	42.2	480	4	US-09-614-124B-336
12	43	42.2	480	4	US-09-671-325-336
13	43	42.2	480	4	US-09-589-184-336
14	43	42.2	582	3	US-08-194-560-2
15	42.5	41.7	190	1	US-08-816-241-1
16	42.5	41.7	190	3	US-09-128-395-1
17	41	40.2	2474	4	US-08-265-367C-3
18	41	40.2	2474	4	US-08-305-790B-4
19	40	39.2	374	4	US-09-721-870-24
20	40	39.2	660	4	US-09-907-794A-28
21	40	39.2	660	4	US-09-905-125A-28
22	40	39.2	660	4	US-09-902-775A-28
23	39.5	38.7	181	3	US-09-029-213B-22
24	39.5	38.7	286	4	US-09-328-352-5022
25	39	38.2	80	4	US-09-673-395A-447
26	39	38.2	131	2	US-08-834-655-9
27	39	38.2	131	3	US-08-834-033A-10

```

28 39 38.2 131 3 US-09-363-574-9 Sequence 9, Appli
29 39 38.2 131 4 US-09-363-526-9 Sequence 9, Appli
30 39 38.2 219 4 US-09-439-261-20 Sequence 20, Appl
31 39 38.2 219 4 US-09-227-613-19 Sequence 19, Appl
32 39 38.2 287 4 US-09-439-261-13 Sequence 13, Appl
33 39 38.2 287 4 US-09-227-613-14 Sequence 14, Appl
34 39 38.2 288 4 US-09-439-261-14 Sequence 14, Appl
35 39 38.2 288 4 US-09-439-261-16 Sequence 16, Appl
36 39 38.2 288 4 US-09-439-261-15 Sequence 15, Appl
37 39 38.2 288 4 US-09-227-613-12 Sequence 12, Appl
38 39 38.2 288 4 US-09-439-261-11 Sequence 11, Appl
39 39 38.2 444 4 US-09-439-261-43 Sequence 43, Appl
40 39 38.2 444 4 US-09-227-613-12 Sequence 12, Appl
41 39 38.2 444 4 US-09-048-888-3 Sequence 3, Appli
42 39 38.2 444 4 US-09-439-261-39 Sequence 39, Appli
43 39 38.2 445 4 US-09-439-261-45 Sequence 45, Appli
44 39 38.2 932 4 US-09-328-352-7453 Sequence 7453, Ap
45

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ALIGNMENTS

```

RESULT 1
US-09-137-223A-2
; Sequence 2, Application US/09137/223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-137-223A-2

```

```

Query Match 45.1% Score 46; DB 4; Length 478;
Best Local Similarity 40.0%; Pred. No. 47;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
Qy 1 DWVCNLFKNQWFCDL 15
Db 322 EWLSSVYKQWQWFA 336

```

```

RESULT 2
US-09-131-028A-3
; Sequence 3, Application US/09131/028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004 US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3

```

; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3

Query Match 44.1%; Score 45; DB 3; Length 215;
Best Local Similarity 42.9%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 0; Gaps 0;

QY 2 WVCNLFKNQWFCDL 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 3

US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-Yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.PI
; CURRENT APPLICATION NUMBER: US/09/131.028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13

Query Match 44.1%; Score 45; DB 3; Length 215;
Best Local Similarity 42.9%; Pred. No. 29;
Matches 6; Conservative 4; Mismatches 0; Gaps 0;

QY 2 WVCNLFKNQWFCDL 15
Db 12 WFCGLRGNEFFCEV 25

RESULT 4

US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516

Query Match 43.1%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.2e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 WVCNLFKN 9
Db 54 WICNLFAN 61

RESULT 5

US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 42.2%; Score 43; DB 4; Length 21;
Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCNLFKNQWFCDL 14
Db 3 WVCRAQPLQWLCE 15

RESULT 6

US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 42.2%; Score 43; DB 4; Length 21;

Best Local Similarity 46.2%; Pred. No. 5.1;
Matches 6; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFC D 14
Db 3 WVCRAGLQWLCE 15

RESULT 7

US-08-828-488-8
; Sequence 8, Application US/08928488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-08-828-488-8

Query Match 42.2%; Score 43; DB 2; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

RESULT 8

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.

; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC D 14
Db 400 DMACNFMGDEWFDV D 413

RESULT 9

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336

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; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 10
US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 11
US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 12
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match      42.2%; Score 43; DB 4; Length 480;
Best Local Similarity 42.9%; Pred. No. 1.3e+02;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFC 14
Db 400 DMACNFMGDEWFD 413

RESULT 13
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336
```

US-09-589-184-336

Query Match 42.2%; Score 43; DB 4; Length 480;
 Best Local Similarity 42.9%; Pred. No. 1.3e+02;
 Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 14
 DB 400 DMACNFMGDEWFD 413

RESULT 14

US-08-194-560-2
 ; Sequence 2, Application US/08194560
 ; Patent No. 6255062
 ; GENERAL INFORMATION:
 ; APPLICANT: Campbell, Judith L.
 ; APPLICANT: Budd, Martin E.
 ; TITLE OF INVENTION: B-Type DNA Polymerases
 ; NUMBER OF SEQUENCES: 9
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
 ; STREET: 4 Embarcadero Center, Suite 3400
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: United States
 ; ZIP: 94111-4187
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/194,560
 ; FILING DATE: 14-FEB-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Trecartin, Richard F.
 ; REGISTRATION NUMBER: 31,801
 ; REFERENCE/DOCKET NUMBER: A-59515/RFT/RMS
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 781-1989
 ; TELEFAX: (415) 398-3249
 ; TELEX: 910 277299
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 582 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-194-560-2

Query Match 42.2%; Score 43; DB 3; Length 582;
 Best Local Similarity 40.0%; Pred. No. 1.6e+02;
 Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDL 15
 DB 322 DWLCXMSRNECFTHL 336

RESULT 15

US-08-816-241-1
 ; Sequence 1, Application US/08816241
 ; Patent No. 5804185
 ; GENERAL INFORMATION:
 ; APPLICANT: Bandman, Olga
 ; APPLICANT: Goli, Surya K.
 ; TITLE OF INVENTION: NOVEL RNA EDITING ENZYME
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.
 ; STREET: 3174 Porter Drive

; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94304
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSeq for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/816,241
 ; FILING DATE: Filed Herewith
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Billings, Lucy J.
 ; REGISTRATION NUMBER: 36,749
 ; REFERENCE/DOCKET NUMBER: PF-0239 US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 415-855-0555
 ; TELEFAX: 415-845-4166
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 190 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; IMMEDIATE SOURCE:
 ; LIBRARY: PROSTUT09
 ; CLONE: 1646823
 ; US-08-816-241-1

Query Match 41.7%; Score 42.5; DB 1; Length 190;
 Best Local Similarity 28.6%; Pred. No. 58;
 Matches 8; Conservative 2; Mismatches 3; Indels 15; Gaps 1;

QY 2 WVCNLFKNQ-----WFCDL 14
 DB 50 WKTGVFRNQVDSETHCAERCFLSWFCD 77

Search completed: September 8, 2004, 14:31:53
 Job time : 13.3 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-144
Perfect score: 108
Sequence: 1 DWCEWLKPQWYCNLS 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues
Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	108	100.0	16	11	US-09-825-517A-144
2	96	88.9	16	11	US-09-825-517A-146
3	95	88.0	16	11	US-09-825-517A-68
4	94	87.0	16	11	US-09-825-517A-103
5	92	85.2	16	11	US-09-825-517A-141
6	92	85.2	16	11	US-09-825-517A-148
7	90	83.3	16	11	US-09-825-517A-115
8	88	81.5	16	11	US-09-825-517A-126
9	87	80.6	16	11	US-09-825-517A-130
10	85	78.7	16	11	US-09-825-517A-54
11	85	78.7	16	11	US-09-825-517A-138
12	85	78.7	16	11	US-09-825-517A-143
13	84	77.8	16	11	US-09-825-517A-112
14	84	77.8	16	11	US-09-825-517A-122
15	84	77.8	16	11	US-09-825-517A-125

16	84	77.8	16	11	US-09-825-517A-140	Sequence 140, App
17	84	77.8	16	11	US-09-825-517A-142	Sequence 142, App
18	81	75.0	16	11	US-09-825-517A-100	Sequence 100, App
19	81	75.0	16	11	US-09-825-517A-101	Sequence 101, App
20	80	74.1	16	11	US-09-825-517A-104	Sequence 104, App
21	80	74.1	16	11	US-09-825-517A-137	Sequence 137, App
22	78	72.2	16	11	US-09-825-517A-65	Sequence 65, App1
23	78	72.2	16	11	US-09-825-517A-78	Sequence 78, App1
24	78	72.2	16	11	US-09-825-517A-114	Sequence 114, App
25	78	72.2	16	11	US-09-825-517A-147	Sequence 147, App
26	77	71.3	16	11	US-09-825-517A-56	Sequence 56, App1
27	77	71.3	16	11	US-09-825-517A-97	Sequence 97, App1
28	77	71.3	16	11	US-09-825-517A-117	Sequence 117, App
29	76	70.4	16	11	US-09-825-517A-59	Sequence 59, App1
30	76	70.4	16	11	US-09-825-517A-75	Sequence 75, App1
31	76	70.4	16	11	US-09-825-517A-86	Sequence 86, App1
32	76	70.4	16	11	US-09-825-517A-127	Sequence 127, App
33	76	70.4	16	11	US-09-825-517A-150	Sequence 150, App
34	75	69.4	16	11	US-09-825-517A-123	Sequence 123, App
35	74	68.5	16	11	US-09-825-517A-49	Sequence 49, App1
36	74	68.5	16	11	US-09-825-517A-105	Sequence 105, App
37	74	68.5	16	11	US-09-825-517A-109	Sequence 109, App
38	74	68.5	16	11	US-09-825-517A-113	Sequence 113, App
39	74	68.5	16	11	US-09-825-517A-151	Sequence 151, App
40	73	67.6	16	11	US-09-825-517A-80	Sequence 80, App1
41	72	66.7	16	11	US-09-825-517A-139	Sequence 139, App
42	71	65.7	16	11	US-09-825-517A-76	Sequence 76, App1
43	71	65.7	16	11	US-09-825-517A-88	Sequence 88, App1
44	71	65.7	16	11	US-09-825-517A-90	Sequence 90, App1
45	71	65.7	16	11	US-09-825-517A-91	Sequence 91, App1

ALIGNMENTS

RESULT 1
US-09-825-517A-144
; Sequence 144, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 144
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-144

Query Match 100.0%; Score 108; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKPQWYCNLS 16
| | | | | | | | | | | | | | | |
Db 1 DWCEWLKPQWYCNLS 16

RESULT 2
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match 88.9%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKQWFCNPL 16

RESULT 3
US-09-825-517A-68
; Sequence 68, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68

Query Match 88.0%; Score 95; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.4e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWFKPQWFCNPL 16

RESULT 4
US-09-825-517A-103
; Sequence 103, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 103
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-103

Query Match 87.0%; Score 94; DB 11; Length 16;
Best Local Similarity 86.7%; Pred. No. 1.9e-05;
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLS 15
| | | | | | | | | | | | | | |
Db 1 NWVCEWLKPQWWCNS 15

RESULT 5
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 85.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.5e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWFCNAL 16

RESULT 6
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US/09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT

; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-148

Query Match 85.2%; Score 92; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.5e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWLKHQWFCNAL 16

RESULT 7
 US-09-825-517A-115
 ; Sequence 115, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 115
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-115

Query Match 83.3%; Score 90; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 6.3e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWFKPWICNLL 16

RESULT 8
 US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 81.5%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00011;

Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWLKNQWQCNVL 16

RESULT 9
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 80.6%; Score 87; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 0.00015;
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWFKQWFCNML 16

RESULT 10
 US-09-825-517A-54
 ; Sequence 54, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 54
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-54

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00027;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPQWYCNLSL 16
 ||||| |||||
 Db 1 DWVCEWLKNQWQACNML 16

RESULT 11

US-09-825-517A-138
 ; Sequence 136, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 138
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-138

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00027;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNSL 16
 |||||
 Db 1 DWVCEWLKQWACNML 16

RESULT 12

US-09-825-517A-143
 ; Sequence 143, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 143
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-143

Query Match 78.7%; Score 85; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00027;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNSL 16
 |||||
 Db 1 DWVCEWLKQWACNML 16

RESULT 13

US-09-825-517A-112
 ; Sequence 112, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 112
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-112

Query Match 77.8%; Score 84; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00037;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNSL 16
 |||||
 Db 1 DWVCEWLKQWACNIL 16

RESULT 14

US-09-825-517A-122
 ; Sequence 122, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 122
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-122

Query Match 77.8%; Score 84; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 0.00037;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKPOWYCNSL 16
 |||||
 Db 1 DWVCEWLKQWACNIL 16

RESULT 15

US-09-825-517A-125
 ; Sequence 125, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125
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Query Match      77.8%; Score 84; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 0.00037;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 DWVCEWLKPOWVCNSL 16
        |||||
Db       1 DWVCEWLKQWACNVL 16
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Search completed: September 8, 2004, 15:58:38
Job time : 44.85 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-144
Perfect score: 108
Sequence: 1 DWVCEWLKPQWYCNLS 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
- 5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	42.6	802	4	US-09-147-236-4
2	46	42.6	802	4	US-09-522-474-4
3	45	41.7	71	4	US-09-621-976-5666
4	45	41.7	411	2	US-08-568-459A-20
5	45	41.7	411	2	US-08-487-826B-32
6	45	41.7	411	4	US-09-210-288-20
7	45	41.7	2710	2	US-08-568-459A-12
8	45	41.7	2710	2	US-08-487-826B-12
9	45	41.7	2710	4	US-09-210-288-12
10	45	41.7	3060	2	US-08-487-826B-14
11	44	40.7	101	4	US-09-621-976-3885
12	44	40.7	423	3	US-08-943-714-9
13	44	40.7	501	4	US-09-465-519-2
14	44	40.7	501	4	US-09-465-519-4
15	43	39.8	588	4	US-09-252-991A-31356
16	43	39.8	725	4	US-10-184-595-30
17	42	38.9	24	1	US-08-484-635-86
18	42	38.9	24	2	US-08-484-631-86
19	42	38.9	24	2	US-08-827-570-86
20	42	38.9	287	4	US-09-252-991A-30894
21	42	38.9	318	4	US-09-252-991A-27319
22	42	38.9	340	4	US-09-134-001C-3709
23	42	38.9	349	4	US-09-489-039A-10951
24	42	38.9	646	4	US-09-252-991A-23299
25	42	38.9	755	3	US-09-071-101-2
26	42	38.9	755	3	US-09-369-618-2
27	42	38.9	755	3	US-09-369-617-2

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28      42      38.9      3031      1      US-07-689-008-2      Sequence 2, Appli
29      41.5      38.4      89      4      US-09-621-976-7155      Sequence 7155, Ap
30      41.5      38.4      92      4      US-09-107-532A-4069      Sequence 4069, Ap
31      41      38.0      63      4      US-09-497-491-47       Sequence 47, Appl
32      41      38.0      152     1      US-08-602-010A-16      Sequence 16, Appl
33      41      38.0      152     1      US-08-680-726A-16      Sequence 16, Appl
34      41      38.0      152     3      US-09-092-409-16       Sequence 16, Appl
35      41      38.0      170     4      US-09-252-991A-21369    Sequence 21369, A
36      41      38.0      305     1      US-08-680-726A-80       Sequence 80, Appl
37      41      38.0      305     3      US-09-092-409-80       Sequence 80, Appl
38      41      38.0      391     1      US-08-602-010A-6        Sequence 6, Appli
39      41      38.0      391     1      US-08-680-726A-6        Sequence 6, Appli
40      41      38.0      391     3      US-09-092-409-6        Sequence 6, Appli
41      41      38.0      399     4      US-09-252-991A-18242    Sequence 18242, A
42      41      38.0      416     1      US-08-464-523B-33       Sequence 33, Appl
43      41      38.0      535     4      US-09-543-681A-4798     Sequence 4798, Ap
44      41      38.0      617     3      US-09-314-242-2         Sequence 2, Appli
45      41      38.0      617     4      US-09-063-733A-46       Sequence 46, Appl

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ALIGNMENTS

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RESULT 1
US-09-147-236-4
; Sequence 4, Application US/09147236A
; Patent No. 6316251
; GENERAL INFORMATION:
; APPLICANT: TONOUCHI, Naoto
; APPLICANT: TSUCHIDA, Takayasu
; APPLICANT: YOSHINAGA, Fumihiro
; APPLICANT: TAHARA, Naoki
; APPLICANT: HAYASHI, Takahisa
; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
; FILE REFERENCE: 6537-011-0PCT
; CURRENT APPLICATION NUMBER: US/09/147,236A
; CURRENT FILING DATE: 1999-04-08
; EARLIER APPLICATION NUMBER: PCT/JP97/03633
; EARLIER FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Acetobacter xylinum
; FEATURE:
; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, t, or
; OTHER INFORMATION: c
US-09-147-236-4

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Query Match      42.6%; Score 46; DB 4; Length 802;
Best Local Similarity 60.0%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      6 WLKPQWYCNLS 15
      |||||
Db      751 WLKPDWYTMHN 760

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RESULT 2
US-09-522-474-4
; Sequence 4, Application US/09522474
; Patent No. 6573076
; GENERAL INFORMATION:
; APPLICANT: TONOUCHI, Naoto
; APPLICANT: TSUCHIDA, Takayasu
; APPLICANT: YOSHINAGA, Fumihiro
; APPLICANT: TAHARA, Naoki
; APPLICANT: HAYASHI, Takahisa
; TITLE OF INVENTION: NOVEL GENE, GROUP OF GENES, AND NOVEL BETA-GLUCOSIDASE
; FILE REFERENCE: 6537-011-0PCT
; CURRENT APPLICATION NUMBER: US/09/522,474
; CURRENT FILING DATE: 2000-03-09

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; PRIOR APPLICATION NUMBER: US/09/147,236
; PRIOR FILING DATE: 1999-04-08
; PRIOR APPLICATION NUMBER: PCT/JP97/03633
; PRIOR FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 802
; TYPE: PRT
; ORGANISM: Acetobacter xylinum
; FEATURE:
; OTHER INFORMATION: n at positions 15741 and 15767 may be a, g, t, or
; OTHER INFORMATION: c
US-09-522-474-4

Query Match          42.6%; Score 46; DB 4; Length 802;
Best Local Similarity 60.0%; Pred. No. 78;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      6 WLKPQWYCN 15
      |||||
Db      751 WLKPDWYH 760

RESULT 3
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6839063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
US-09-621-976-5666

Query Match          41.7%; Score 45; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 8.9;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1 DWVCWLKPQWYC 13
      |||||
Db      54 DMCVWEPHHLWC 66

RESULT 4
US-08-568-459A-20
; Sequence 20, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
```

```
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/568,459A
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
US-08-568-459A-20

Query Match          41.7%; Score 45; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY      2 WVCEWLKPQWYCN 15
      |||||
Db      229 WMTW--AEWYCKA 240

RESULT 5
US-08-487-826B-32
; Sequence 32, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
```

```
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; US-08-487-826B-32

Query Match 41.7%; Score 45; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 55;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPOWYCN 15
|: |||: |||:
Db 229 WMTEW--AEWYCKA 240

RESULT 6
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO

; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-08-568-459A-12

Query Match 41.7%; Score 45; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3,9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPOWYCN 15
|: |||: |||:
Db 1138 WMTEW--AEWYCKA 1149

RESULT 8
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; TITLE OF INVENTION: AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-08-568-459A-12

Query Match 41.7%; Score 45; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3,9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKPOWYCN 15
|: |||: |||:
Db 1138 WMTEW--AEWYCKA 1149

RESULT 8
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US-08-487-826B-12
; Sequence 12, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CPI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-0176
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
; US-08-487-826B-12

Query Match 41.7%; Score 45; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3.9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCWLKPQWYCN 15
|: ||| :||| :
Db 1138 WMTW--AEWYCKA 1149

RESULT 9
US-09-210-288-12
; Sequence 12, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear

STREET: 620 Newport Center Drive 16th Floor
CITY: Newport Beach
STATE: California
COUNTRY: US
ZIP: 92660
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/210,288
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Fuller, Michael
REGISTRATION NUMBER: 36,516
REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 235-8550
TELEFAX: (619) 235-0176
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2710 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Plasmodium falciparum
US-09-210-288-12

Query Match 41.7%; Score 45; DB 4; Length 2710;
Best Local Similarity 42.9%; Pred. No. 3.9e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCWLKPQWYCN 15
|: ||| :||| :
Db 1138 WMTW--AEWYCKA 1149

RESULT 10
US-08-487-826B-14
; Sequence 14, Application US/08487826B
; Patent No. 5993827
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellem, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; AND PLASMODIUM FALCIPARUM ERYTHROCYTE BINDING PROTEINS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

```

; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29, 655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-487-826B-14

Query Match 41.7%; Score 45; DB 2; Length 3060;
Best Local Similarity 42.9%; Pred. No. 4.4e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKPOWYCNLS 15
Db 1136 WMTW--AEWYCKA 1147

RESULT 11
US-09-621-976-3885
; Sequence 3885, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 3885
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -23...-1
; NAME/KEY: UNSURE
; LOCATION: 17
; OTHER INFORMATION: Xaa = Pro,Arg
; NAME/KEY: UNSURE
; LOCATION: 16
; OTHER INFORMATION: Xaa = Ser,Trp
US-09-621-976-3885

Query Match 40.7%; Score 44; DB 4; Length 101;
Best Local Similarity 58.8%; Pred. No. 18;
Matches 10; Conservative 0; Mismatches 5; Indels 2; Gaps 1;

QY 2 WVCEWLKPOWYCNLS 16
Db 48 WWSGWLGPQQLYSNLS 64

RESULT 12
US-08-943-714-9
; Sequence 9, Application US/08943714
; Patent No. 6187578
; GENERAL INFORMATION:
; APPLICANT: Blinkovsky, Alexander
; APPLICANT: Berka, Randy
; APPLICANT: Rey, Michael
; APPLICANT: Golightly, Elizabeth
; APPLICANT: Klotz, Alan
; APPLICANT: Mathisen, Thomas Erik
; APPLICANT: Dammann, Claus
; TITLE OF INVENTION: Carboxypeptidases And Nucleic Acids
; TITLE OF INVENTION: Encoding Same
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6187578o No. 6187578disk of No. 6187578th America, Inc.
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 40.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 79;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DMVCEWL 7
Db 340 DWICNWL 346

RESULT 13
US-09-465-519-2
; Sequence 2, Application US/09465519
; Patent No. 6403355
; GENERAL INFORMATION:
; APPLICANT: HAGIHARA, Hiroshi
; APPLICANT: KITAYAMA, Kaori
; APPLICANT: HAYASHI, Yasuhiro
; APPLICANT: IGARASHI, Kazuaki
; APPLICANT: ENDO, Keiji
; APPLICANT: OZAKI, Katsuya
; TITLE OF INVENTION: NOVEL AMYLASES
; FILE REFERENCE: 2173-0118P
; CURRENT APPLICATION NUMBER: US/09/465,519
; CURRENT FILING DATE: 1999-12-16
; EARLIER APPLICATION NUMBER: 10-362487 JAPAN
; EARLIER FILING DATE: 1998-12-21
; EARLIER APPLICATION NUMBER: 10-362488 JAPAN
; EARLIER FILING DATE: 1998-12-21
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-09-465-519-2

Query Match 40.7%; Score 44; DB 4; Length 501;
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Best Local Similarity 46.7%; Pred. No. 94;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

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Job time : 14.3 secs

Qy 2 WVCEWLKPQWYCNLSL 16
Db 359 WVADWFKPLAYATIL 373

RESULT 14

US-09-465-519-4
; Sequence 4, Application US/09465519
; Patent No. 6403355
; GENERAL INFORMATION:
; APPLICANT: HAGIHARA, Hiroshi
; APPLICANT: KITAYAMA, Kaori
; APPLICANT: HAYASHI, Yasuhiro
; APPLICANT: IGARASHI, Kazuaki
; APPLICANT: ENDO, Keiji
; APPLICANT: OZAKI, Katsuya
; TITLE OF INVENTION: NOVEL AMYLASES
; FILE REFERENCE: 2173-0118P
; CURRENT APPLICATION NUMBER: US/09/465,519
; CURRENT FILING DATE: 1999-12-16
; EARLIER APPLICATION NUMBER: 10-362487 JAPAN
; EARLIER FILING DATE: 1998-12-21
; EARLIER APPLICATION NUMBER: 10-362488 JAPAN
; EARLIER FILING DATE: 1998-12-21
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Bacillus sp.
US-09-465-519-4

Query Match 40.7%; Score 44; DB 4; Length 501;
Best Local Similarity 46.7%; Pred. No. 94;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WVCEWLKPQWYCNLSL 16
Db 359 WVADWFKPLAYATIL 373

RESULT 15

US-09-252-991A-31356
; Sequence 31356, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 31356
; LENGTH: 588
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31356

Query Match 39.8%; Score 43; DB 4; Length 588;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEWLKPQ 10
Db 330 WLCVWLWLPQ 338

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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-143
Perfect score: 104
Sequence: 1 DWVCEWLKMQWACNNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*
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2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
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6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
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8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-54
2	104	100.0	16	11	US-09-825-517A-138
3	104	100.0	16	11	US-09-825-517A-143
4	100	96.2	16	11	US-09-825-517A-112
5	100	96.2	16	11	US-09-825-517A-122
6	100	96.2	16	11	US-09-825-517A-125
7	100	96.2	16	11	US-09-825-517A-140
8	100	96.2	16	11	US-09-825-517A-142
9	92	88.5	16	11	US-09-825-517A-141
10	90	86.5	16	11	US-09-825-517A-49
11	90	86.5	16	11	US-09-825-517A-151
12	89	85.6	16	11	US-09-825-517A-101
13	88	84.6	16	11	US-09-825-517A-130
14	86	82.7	16	11	US-09-825-517A-126
15	86	82.7	16	11	US-09-825-517A-146

Sequence 115, App
Sequence 144, App
Sequence 148, App
Sequence 68, Appl
Sequence 105, App
Sequence 117, App
Sequence 80, Appl
Sequence 90, Appl
Sequence 103, App
Sequence 106, App
Sequence 107, App
Sequence 113, App
Sequence 147, App
Sequence 175, Appl
Sequence 76, Appl
Sequence 86, Appl
Sequence 135, App
Sequence 139, App
Sequence 59, Appl
Sequence 104, App
Sequence 127, App
Sequence 137, App
Sequence 67, Appl
Sequence 72, Appl
Sequence 82, Appl
Sequence 65, Appl
Sequence 78, Appl
Sequence 150, App
Sequence 91, Appl
Sequence 114, App

ALIGNMENTS

RESULT 1
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNNML 16
Db 1 DWVCEWLKMQWACNNML 16

RESULT 2
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 3

US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 4

US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 5

US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 6

US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT

; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-125

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
 US-09-825-517A-140
 ; Sequence 140, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 140
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-140

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
 US-09-825-517A-142
 ; Sequence 142, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 142
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-142

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;

Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
 US-09-825-517A-141
 ; Sequence 141, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 141
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-141

Query Match 88.5%; Score 92; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.3e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 10
 US-09-825-517A-49
 ; Sequence 49, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 49
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-49

Query Match 86.5%; Score 90; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.3e-05;
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNML 16
 |||||:|||||:
 Db 1 DWVCEWLKMQWACNVL 16

```
RESULT 11
US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 151
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match      86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.3e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DWVCEWLKQWACNML 16
DB      1 DWVCEFLKQWACNVL 16

RESULT 12
US-09-825-517A-101
; Sequence 101, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 151
; SEQ ID NO 101
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-101

Query Match      85.6%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 3.1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEWLKQWACNML 16
DB      1 DWVCEWSKQWACNVL 16

RESULT 13
US-09-825-517A-130
; Sequence 130, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
```

```
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; SOFTWARE: FastSeq for Windows Version 4.0
; NUMBER OF SEQ ID NOS: 151
; SEQ ID NO 130
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-130

Query Match      84.6%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.2e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 DWVCEWLKQWACNML 16
DB      1 DWVCEWFKQWFCNML 16

RESULT 14
US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.8e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWVCEWLKQWACNML 16
DB      1 DWVCEWLKQWACNVL 16

RESULT 15
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
```

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
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```
Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 DWVCEWLKQWACNML 16
      |||||
Db      1 DWVCEWLKQWFCNSL 16
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Search completed: September 8, 2004, 15:58:37
Job time : 43.85 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517a-143
Perfect score: 104
Sequence: 1 DWCEWLKMQWACNNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pap.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pap.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pap.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pap.*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pap.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	45	44.2	677	3	US-09-061-768A-4
2	46	44.2	677	4	US-09-764-246-4
3	45	43.3	71	4	US-09-621-976-5666
4	45	43.3	1129	4	US-09-252-991A-28552
5	44.5	42.8	491	1	US-09-640-305-4
6	44.5	42.8	491	1	US-08-360-673-4
7	44	42.3	89	4	US-09-621-976-7155
8	44	42.3	423	3	US-08-943-714-9
9	43	41.3	428	4	US-09-489-039A-12688
10	42	40.4	21	4	US-09-337-227C-27
11	42	40.4	21	4	US-09-723-251A-27
12	42	40.4	393	1	US-08-589-374-4
13	42	40.4	393	3	US-09-058-376-4
14	42	40.4	989	3	US-09-110-517-4
15	41	39.4	63	4	US-09-497-491-47
16	41	39.4	170	4	US-09-252-991A-21369
17	41	39.4	208	4	US-09-352-991A-32166
18	41	39.4	382	4	US-09-352-991A-25095
19	41	39.4	1956	3	US-08-843-417-10
20	41	39.4	1956	4	US-09-527-013-10
21	40.5	38.9	20	2	US-07-894-063A-6
22	40.5	38.9	30	1	US-08-262-037-16
23	40.5	38.9	38	1	US-08-262-037-95
24	40.5	38.9	47	1	US-08-262-037-96
25	40.5	38.9	106	3	US-08-444-818-24
26	40.5	38.9	176	3	US-08-444-818-28
27	40.5	38.9	360	4	US-08-850-328-4
28	40.5	38.9	360	4	US-08-850-328-4

28 40.5 38.9 516 3 US-08-867-611-6 Sequence 6, Appli
29 40.5 38.9 516 4 US-09-690-359-6 Sequence 6, Appli
30 40.5 38.9 516 5 PCT-US92-06965A-11 Sequence 11, Appli
31 40.5 38.9 798 3 US-08-867-611-36 Sequence 36, Appli
32 40.5 38.9 798 4 US-09-690-359-36 Sequence 36, Appli
33 40.5 38.9 859 3 US-08-444-818-30 Sequence 9, Appli
34 40.5 38.9 1040 4 US-10-104-966-9 Sequence 30, Appli
35 40.5 38.9 1786 3 US-08-444-818-54 Sequence 9, Appli
36 40.5 38.9 2261 3 US-08-444-818-66 Sequence 54, Appli
37 40.5 38.9 2436 3 US-08-444-818-75 Sequence 66, Appli
38 40.5 38.9 2772 3 US-08-444-818-89 Sequence 75, Appli
39 40.5 38.9 2894 2 US-08-466-975A-23 Sequence 89, Appli
40 40.5 38.9 2894 2 US-08-391-671A-23 Sequence 23, Appli
41 40.5 38.9 2894 3 US-08-467-902A-23 Sequence 23, Appli
42 40.5 38.9 2894 3 US-09-275-265-23 Sequence 23, Appli
43 40.5 38.9 2894 4 US-09-941-611-23 Sequence 23, Appli
44 40.5 38.9 2955 2 US-08-443-260-3 Sequence 3, Appli
45 40.5 38.9 2955 3 US-08-442-805A-3 Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4

Query Match 44.2%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKMQW 11

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

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1; APPLICATION NUMBER: US/09/640,305
2; FILING DATE: 16-AUG-2000
3; PRIOR APPLICATION DATA:
4; APPLICATION NUMBER: US/08/360,673
5; FILING DATE: 06-FEB-1995
6; APPLICATION NUMBER: WO PCT/FR93/00623
7; FILING DATE: 23-JUN-1993
8; APPLICATION NUMBER: FR 92/07785
9; FILING DATE: 25-JUN-1992
10; ATTORNEY/AGENT INFORMATION:
11; NAME: Smith, Julie K.
12; REGISTRATION NUMBER: 38,619
13; REFERENCE/DOCKET NUMBER: ST92040-US
14; TELECOMMUNICATION INFORMATION:
15; TELEPHONE: (610)454-3839
16; TELEFAX: (610)454-3808
17; INFORMATION FOR SEQ ID NO: 4:
18; SEQUENCE CHARACTERISTICS:
19; LENGTH: 491 amino acids
20; TYPE: amino acid
21; TOPOLOGY: linear
22; MOLECULE TYPE: protein
23; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
24;
25; US-09-640-305-4
26;
27; Query Match 42.8%; Score 44.5; DB 1; Length 491;
28; Best Local Similarity 33.3%; Pred. No. 52;
29; Matches 7; Conservative 4; Mismatches 3; Indels 7; Gaps 1;
30;
31; QY 1 DWVCWL-----KMQWACN 14
32; |::||| |::|
33; Db 405 DYICNWLGNLAWTEKLEWRYN 425
34;
35; RESULT 6
36; US-08-360-673-4
37; Sequence 4, Application US/08360673
38; Patent No. 5679544
39; GENERAL INFORMATION:
40; APPLICANT: Fleer, Reinhard
41; APPLICANT: Fournier, Alain
42; APPLICANT: Yeh, Patrice
43; TITLE OF INVENTION: MODIFIED KLUYVEROMYCES YEASTS, THEIR
44; TITLE OF INVENTION: PREPARATION AND USE
45; NUMBER OF SEQUENCES: 17
46; CORRESPONDENCE ADDRESS:
47; ADDRESSEE: Rhone-Poulenc Rorer Inc.
48; STREET: 500 Arcola Rd. 3043
49; CITY: Collegeville
50; STATE: PA
51; COUNTRY: USA
52; ZIP: 19002
53; COMPUTER READABLE FORM:
54; MEDIUM TYPE: Floppy disk
55; COMPUTER: IBM PC compatible
56; OPERATING SYSTEM: PC-DOS/MS-DOS
57; SOFTWARE: Patent In Release #1.0, Version #1.25
58; CURRENT APPLICATION NUMBER: US/08/360,673
59; FILING DATE:
60; CLASSIFICATION: 435
61; PRIOR APPLICATION DATA:
62; APPLICATION NUMBER: WO PCT/FR93/00623
63; FILING DATE: 23-JUN-1993
64; PRIOR APPLICATION DATA:
65; APPLICATION NUMBER: FR 92/07785
66; FILING DATE: 25-JUN-1992
67; ATTORNEY/AGENT INFORMATION:
68; NAME: Smith, Julie K.
69; REGISTRATION NUMBER: 38,619
70; REFERENCE/DOCKET NUMBER: ST92040-US
71; TELECOMMUNICATION INFORMATION:
72; TELEPHONE: (610)454-3839
73;
74;
75;
76;
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79;
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81;
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83;
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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA: /08/943,714
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-943-714-9
;
Query Match 42.3%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7
Db 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.3%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWLK--MOW 11
Db 110 NWIFEWAKEMOW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
;
Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:

```

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; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:

```

ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-08-689-974-4

Query Match 40.4%; Score 42; DB 1; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNML 16
| : | | | : | : | : |
Db 360 WLAVFWMGSSWLCULL 376

RESULT 13
US-09-058-376-4
Sequence 4, Application US/09058376
Patent No. 6080841
GENERAL INFORMATION:
APPLICANT: Au-Young, Janice
APPLICANT: Hawkins, Phillip R.
APPLICANT: Murray, Lynn E.
TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/058,376
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-09-058-376-4

Query Match 40.4%; Score 42; DB 3; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNML 16
| : | | | : | : | : |
Db 360 WLAVFWMGSSWLCULL 376

RESULT 14
US-09-110-517-4
Sequence 4, Application US/09110517A
Patent No. 6248520
GENERAL INFORMATION:
APPLICANT: Roeder, Robert G
APPLICANT: Pondell, Joseph D
APPLICANT: Yuan, Chao X
APPLICANT: Ito, Mitsuhiro
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING NUCLEAR HORMONE
TITLE OF INVENTION: RECEPTOR COACTIVATORS AND USES THEREOF
FILE REFERENCE: 600-1-224
CURRENT APPLICATION NUMBER: US/09/110,517A
CURRENT FILING DATE: 1998-07-06
NUMBER OF SEQ ID NOS: 51
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 989
TYPE: PRT
ORGANISM: Homo sapiens
US-09-110-517-4

Query Match 40.4%; Score 42; DB 3; Length 989;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 WVCEWLKMOWACNM 15
| : | | | : | : | : |
Db 14 WKERWSDYQWAINM 27

RESULT 15
US-09-497-491-47
Sequence 47, Application US/09497491
Patent No. 6630573
GENERAL INFORMATION:
APPLICANT: Walker, Craig
APPLICANT: Shetty, Reshma
APPLICANT: Oliveira, Baldomero M.
APPLICANT: Hooper, David
APPLICANT: Jacobsen, Richard
APPLICANT: Steele, Doug
TITLE OF INVENTION: Tau-Conotoxin Peptides
FILE REFERENCE: Tau-Conopeptides
CURRENT APPLICATION NUMBER: US/09/497,491
CURRENT FILING DATE: 2000-02-04
EARLIER APPLICATION NUMBER: US 60/118,642

; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.4%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. NO. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 DWVCEW 6
|||
Db 57 DMCCEW 62

Search completed: September 8, 2004, 14:31:52
Job time : 13.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-142
Perfect score: 103
Sequence: 1 DWVCWLKQWACNVL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-125
2	103	100.0	16	11	US-09-825-517A-142
3	102	99.0	16	11	US-09-825-517A-112
4	102	99.0	16	11	US-09-825-517A-122
5	102	99.0	16	11	US-09-825-517A-140
6	100	97.1	16	11	US-09-825-517A-54
7	100	97.1	16	11	US-09-825-517A-138
8	100	97.1	16	11	US-09-825-517A-143
9	93	90.3	16	11	US-09-825-517A-49
10	93	90.3	16	11	US-09-825-517A-141
11	93	90.3	16	11	US-09-825-517A-151
12	90	87.4	16	11	US-09-825-517A-101
13	89	86.4	16	11	US-09-825-517A-126
14	86	83.5	16	11	US-09-825-517A-148
15	85	82.5	16	11	US-09-825-517A-146

16	84	81.6	16	11	US-09-825-517A-115	Sequence 115, App
17	84	81.6	16	11	US-09-825-517A-130	Sequence 130, App
18	84	81.6	16	11	US-09-825-517A-144	Sequence 144, App
19	80	77.7	16	11	US-09-825-517A-68	Sequence 68, App
20	79	76.7	16	11	US-09-825-517A-80	Sequence 80, App
21	79	76.7	16	11	US-09-825-517A-147	Sequence 147, App
22	78	75.7	16	11	US-09-825-517A-75	Sequence 75, App
23	78	75.7	16	11	US-09-825-517A-76	Sequence 76, App
24	78	75.7	16	11	US-09-825-517A-107	Sequence 107, App
25	78	75.7	16	11	US-09-825-517A-117	Sequence 117, App
26	78	75.7	16	11	US-09-825-517A-135	Sequence 135, App
27	77	74.8	16	11	US-09-825-517A-59	Sequence 59, App
28	77	74.8	16	11	US-09-825-517A-127	Sequence 127, App
29	77	74.8	16	11	US-09-825-517A-139	Sequence 139, App
30	76	73.8	16	11	US-09-825-517A-103	Sequence 103, App
31	76	73.8	16	11	US-09-825-517A-104	Sequence 104, App
32	76	73.8	16	11	US-09-825-517A-105	Sequence 105, App
33	76	73.8	16	11	US-09-825-517A-113	Sequence 113, App
34	76	73.8	16	11	US-09-825-517A-137	Sequence 137, App
35	75	72.8	16	11	US-09-825-517A-67	Sequence 67, App
36	75	72.8	16	11	US-09-825-517A-82	Sequence 82, App
37	75	72.8	16	11	US-09-825-517A-90	Sequence 90, App
38	75	72.8	16	11	US-09-825-517A-106	Sequence 106, App
39	74	71.8	16	11	US-09-825-517A-65	Sequence 65, App
40	74	71.8	16	11	US-09-825-517A-86	Sequence 86, App
41	74	71.8	16	11	US-09-825-517A-118	Sequence 118, App
42	74	71.8	16	11	US-09-825-517A-150	Sequence 150, App
43	73	70.9	16	11	US-09-825-517A-116	Sequence 116, App
44	72	69.9	16	11	US-09-825-517A-72	Sequence 72, App
45	72	69.9	16	11	US-09-825-517A-78	Sequence 78, App

ALIGNMENTS

RESULT 1
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCWLKQWACNVL 16
Db 1 DWVCWLKQWACNVL 16

RESULT 2
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.8e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWCEWLKMQWACNVL 16
Db      1 DWCEWLKMQWACNVL 16

RESULT 3
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWCEWLKMQWACNVL 16
Db      1 DWCEWLKMQWACNVL 16

RESULT 4
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
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; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWCEWLKMQWACNVL 16
Db      1 DWCEWLKMQWACNVL 16

RESULT 5
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match      99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.2e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 DWCEWLKMQWACNVL 16
Db      1 DWCEWLKMQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
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```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143

Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.6e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.2e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 8.2e-06;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
Db 1 DWVCEWLKMQWACNML 16
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RESULT 11

US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

Query Match 90.3%; Score 93; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 8.2e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy

1 DWVCEWLKMQWACNVL 16

Db

1 DWVCEFLKMQWACNVL 16

RESULT 12

US-09-825-517A-101
; Sequence 101, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 101
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-101

Query Match 87.4%; Score 90; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy

1 DWVCEWLKMQWACNVL 16

Db

1 DWVCEWSKMQWSCNAL 16

RESULT 13

US-09-825-517A-126
; Sequence 126, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 126
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-126

Query Match 86.4%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.8e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy

1 DWVCEWLKMQWACNVL 16

Db

1 DWVCEWLKMQWACNVL 16

RESULT 14

US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match 83.5%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy

1 DWVCEWLKMQWACNVL 16

Db

1 DWVCEWLKMQWFCNAL 16

RESULT 15

US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
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Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.5e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Qy      1 DWVCEWLKQWQACNVL 16
        |||||
Db      1 DWVCEWLKQWFCNSL 16
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Search completed: September 8, 2004, 15:58:37
Job time : 43.85 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-142

Perfect score: 103

Sequence: 1 DWCEWLKMQWACNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.7	677	3	US-09-061-768A-4
2	46	44.7	677	4	US-09-764-246-4
3	46	44.7	1129	4	US-09-252-991A-28552
4	45	43.7	71	4	US-09-621-976-5666
5	44.5	43.2	491	1	US-09-640-305-4
6	44.5	43.2	491	1	US-08-360-673-4
7	44	42.7	89	4	US-09-621-976-7155
8	44	42.7	423	3	US-08-943-714-9
9	43	41.7	428	4	US-09-489-039A-12688
10	43	41.7	501	2	US-08-288-508C-2
11	43	41.7	501	4	US-08-981-490B-1
12	42	40.8	21	4	US-09-337-227C-27
13	42	40.8	21	4	US-09-723-251A-27
14	41	39.8	63	4	US-09-497-491-47
15	41	39.8	170	4	US-09-252-991A-21369
16	41	39.8	208	4	US-09-252-991A-32166
17	41	39.8	382	4	US-09-252-991A-25095
18	41	39.8	393	1	US-08-689-974-4
19	41	39.8	393	3	US-09-058-376-4
20	41	39.8	1956	3	US-08-843-417-10
21	41	39.8	1956	4	US-09-527-013-10
22	40.5	39.3	20	2	US-07-894-063A-6
23	40.5	39.3	30	1	US-08-262-037-16
24	40.5	39.3	38	1	US-08-262-037-16
25	40.5	39.3	47	1	US-08-262-037-96
26	40.5	39.3	106	3	US-08-444-818-24
27	40.5	39.3	176	3	US-08-444-818-28

Sequence 4, Appli
Sequence 6, Appli
Sequence 6, Appli
Sequence 11, Appli
Sequence 36, Appli
Sequence 36, Appli
Sequence 30, Appli
Sequence 9, Appli
Sequence 54, Appli
Sequence 66, Appli
Sequence 75, Appli
Sequence 89, Appli
Sequence 23, Appli
Sequence 23, Appli
Sequence 23, Appli
Sequence 23, Appli
Sequence 3, Appli

28 40.5 39.3 360 4 US-08-850-328-4
29 40.5 39.3 516 3 US-08-867-611-6
30 40.5 39.3 516 4 US-09-690-359-6
31 40.5 39.3 516 5 PCT-US92-06965A-11
32 40.5 39.3 798 4 US-08-867-611-36
33 40.5 39.3 798 4 US-09-690-359-36
34 40.5 39.3 859 3 US-08-444-818-30
35 40.5 39.3 1040 4 US-10-104-966-9
36 40.5 39.3 1786 3 US-08-444-818-54
37 40.5 39.3 2261 3 US-08-444-818-66
38 40.5 39.3 2436 3 US-08-444-818-75
39 40.5 39.3 2772 3 US-08-444-818-89
40 40.5 39.3 2894 2 US-08-466-375A-23
41 40.5 39.3 2894 2 US-08-391-671A-23
42 40.5 39.3 2894 3 US-08-467-902A-23
43 40.5 39.3 2894 3 US-09-275-265-23
44 40.5 39.3 2894 4 US-09-941-611-23
45 40.5 39.3 2955 2 US-08-443-260-3

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
COMPUTER: IBM PC/XI/AT compatible
OPERATING SYSTEM: Windows 3.1
SOFTWARE: WORD PERFECT 6.1 and ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/061,768A
FILING DATE: APRIL 16, 1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA: NONE
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: ARLES A. TAYLOR, JR.
REGISTRATION NUMBER: 39,395
REFERENCE/DOCKET NUMBER: 1242/5
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 493-8000
TELEFAX: (919) 419-0383
TELEX:
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 677 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQW 11

SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,714
FILING DATE: 03-OCT-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4990.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
TELEX:
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 423 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
||:|:|
DB 340 DWICNWL 346

RESULT 9

US-09-489-039A-12688
Sequence 12688, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:

APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 12688
LENGTH: 428

TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK--MQW 11
:|:|:|:|
DB 110 NWIFWAKEAMQW 122

RESULT 10

US-08-288-508C-2
Sequence 2, Application US/08288508C
Patent No. 5934094

GENERAL INFORMATION:

APPLICANT: H tten, Gertrud
APPLICANT: Neidhardt, Helge
APPLICANT: Paulista, Michael
TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF
TITLE OF INVENTION: THE TGF- FAMILY
NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nikaïdo, Marmelstein, Murray & Oram LLP
STREET: 655 Fifteenth Street N.W. Suite 330

CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20003-5701
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/288,508C
FILING DATE: 10-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 43 26 829.3
FILING DATE: 10-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 44 18 222.8
FILING DATE: 25-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 44 20 157.5
FILING DATE: 09-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: JAHNS, Kristina M.
REGISTRATION NUMBER: P-41,092
REFERENCE/DOCKET NUMBER: P564-4019
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)638-5000
TELEFAX: (202)638-4810
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-288-508C-2

Query Match 41.7%; Score 43; DB 2; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWACNVL 16
||:|:|:|
DB 12 WYLAWLDFEICTVL 26

RESULT 11

US-08-981-490B-1
Sequence 1, Application US/08981490B
Patent No. 6531450

GENERAL INFORMATION:

APPLICANT: Hotten, Gertrud
APPLICANT: Pohl, Jens
APPLICANT: Bechtold, Rolf
APPLICANT: Paulista, Michael

APPLICANT: Unsicker, Klaus

TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE

FILE REFERENCE: NERVOUS SYSTEM

FILE REFERENCE: 100564-07032

CURRENT APPLICATION NUMBER: US/08/981,490B

CURRENT FILING DATE: 1998-05-18

PRIOR APPLICATION NUMBER: PCT/EP96/03065

PRIOR FILING DATE: 1996-07-12

PRIOR APPLICATION NUMBER: DE/195 25 416.3

PRIOR FILING DATE: 1995-07-12

NUMBER OF SEQ ID NOS: 7

SOFTWARE: PatentIn version 3.1

SEQ ID NO 1

LENGTH: 501

TYPE: PRT

ORGANISM: Homo sapiens

US-08-981-490B-1

Query Match 41.7%; Score 43; DB 4; Length 501;
Best Local Similarity 40.0%; Pred. No. 90;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
QY 2 WVCEWLKMQWACNVL 16
Db 12 WYLAWLDFEICTVL 26

RESULT 12
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2 rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 13
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized

; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.3;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
Db 3 WVCRAGPLQWLC 14

RESULT 14
US-09-497-491-47
; Sequence 47, Application US/09497491
; Patent No. 6630573
; GENERAL INFORMATION:
; APPLICANT: Walker, Craig
; APPLICANT: Shetty, Reshma
; APPLICANT: Olivera, Balomero M.
; APPLICANT: Hooper, David
; APPLICANT: Jacobsen, Richard
; APPLICANT: Steele, Doug
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Tau-Conotoxin Peptides
; FILE REFERENCE: Tau-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/497,491
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: US 60/118,642
; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.8%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEW 6
Db 57 DWCEW 62

RESULT 15
US-09-252-991A-21369
; Sequence 21369, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21369
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21369

Query Match 39.8%; Score 41; DB 4; Length 170;
Best Local Similarity 50.0%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 2 WVCEWLKNOW 11
|:| |
Db 36 WLCANLSCW 45

Search completed: September 8, 2004, 14:31:52
Job time : 14.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-141

Perfect score: 105

Sequence: 1 DWCEWLKMQWFCNAL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	105	100.0	16	11	US-09-825-517A-141	Sequence 141, App
2	98	93.3	16	11	US-09-825-517A-148	Sequence 148, App
3	96	91.4	16	11	US-09-825-517A-146	Sequence 146, App
4	93	88.6	16	11	US-09-825-517A-125	Sequence 125, App
5	93	88.6	16	11	US-09-825-517A-142	Sequence 142, App
6	92	87.6	16	11	US-09-825-517A-54	Sequence 54, App1
7	92	87.6	16	11	US-09-825-517A-112	Sequence 112, App
8	92	87.6	16	11	US-09-825-517A-122	Sequence 122, App
9	92	87.6	16	11	US-09-825-517A-138	Sequence 138, App
10	92	87.6	16	11	US-09-825-517A-140	Sequence 140, App
11	92	87.6	16	11	US-09-825-517A-143	Sequence 143, App
12	92	87.6	16	11	US-09-825-517A-144	Sequence 144, App
13	91	86.7	16	11	US-09-825-517A-101	Sequence 101, App
14	90	85.7	16	11	US-09-825-517A-130	Sequence 130, App
15	89	84.8	16	11	US-09-825-517A-68	Sequence 68, App1

16 89 84.8 16 11 US-09-825-517A-126 Sequence 126, App
17 83 79.0 16 11 US-09-825-517A-49 Sequence 49, App1
18 83 79.0 16 11 US-09-825-517A-56 Sequence 56, App1
19 83 79.0 16 11 US-09-825-517A-115 Sequence 115, App
20 83 79.0 16 11 US-09-825-517A-147 Sequence 147, App
21 83 79.0 16 11 US-09-825-517A-151 Sequence 151, App
22 82 78.1 16 11 US-09-825-517A-75 Sequence 75, App1
23 81 77.1 16 11 US-09-825-517A-59 Sequence 59, App1
24 81 77.1 16 11 US-09-825-517A-78 Sequence 78, App1
25 81 77.1 16 11 US-09-825-517A-103 Sequence 103, App
26 81 77.1 16 11 US-09-825-517A-127 Sequence 127, App
27 80 76.2 16 11 US-09-825-517A-86 Sequence 86, App1
28 78 74.3 16 11 US-09-825-517A-150 Sequence 150, App
29 77 73.3 16 11 US-09-825-517A-114 Sequence 114, App
30 77 73.3 16 11 US-09-825-517A-117 Sequence 117, App
31 77 73.3 16 11 US-09-825-517A-137 Sequence 137, App
32 76 72.4 16 11 US-09-825-517A-80 Sequence 80, App1
33 76 72.4 16 11 US-09-825-517A-100 Sequence 100, App
34 76 72.4 16 11 US-09-825-517A-109 Sequence 109, App
35 75 71.4 16 11 US-09-825-517A-65 Sequence 65, App1
36 75 71.4 16 11 US-09-825-517A-105 Sequence 105, App
37 75 71.4 16 11 US-09-825-517A-107 Sequence 107, App
38 74 70.5 16 11 US-09-825-517A-113 Sequence 113, App
39 74 70.5 16 11 US-09-825-517A-139 Sequence 139, App
40 73 69.5 16 11 US-09-825-517A-104 Sequence 104, App
41 73 69.5 16 11 US-09-825-517A-135 Sequence 135, App
42 72 68.6 16 11 US-09-825-517A-128 Sequence 128, App
43 71 67.6 16 11 US-09-825-517A-76 Sequence 76, App1
44 71 67.6 16 11 US-09-825-517A-81 Sequence 81, App1
45 71 67.6 16 11 US-09-825-517A-90 Sequence 90, App1

ALIGNMENTS

RESULT 1
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match 100.0%; Score 105; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.2e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEWLKMQWFCNAL 16

RESULT 2
US-09-825-517A-148
; Sequence 148, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 148
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-148

Query Match      93.3%; Score 98; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 2.6e-06;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWFCNAL 16

RESULT 3
US-09-825-517A-146
; Sequence 146, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146

Query Match      91.4%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 4.8e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWFCNSL 16

RESULT 4
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
```

```
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match      88.6%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWACNVL 16

RESULT 5
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      88.6%; Score 93; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.2e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWFCNAL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
```

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 7
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 8
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
```

```
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 9
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 10
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
Db 1 DWVCEWLKMQWACNML 16

RESULT 11
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match      87.6%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.6e-05;
```

RESULT 11
 US-09-825-517A-143
 ; Sequence 143, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 143
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-143

Query Match 87.6%; Score 92; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.6e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKMQWACNML 16

RESULT 12
 US-09-825-517A-144
 ; Sequence 144, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 144
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-144

Query Match 87.6%; Score 92; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 1.6e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKQWYCNSL 16

RESULT 13
 US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-101

Query Match 86.7%; Score 91; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.2e-05;
 Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWSKMQWSCNAL 16

RESULT 14
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 85.7%; Score 90; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEWLKMQWFCNAL 16
 ||||| ||||| |||||
 Db 1 DWVCEWFKAQWFCNML 16

RESULT 15
 US-09-825-517A-68
 ; Sequence 68, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-68
```

```
Query Match      84.8%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKMQWFCNAL 16
        |||||  |||||  |
Db      1 DWVCEWFKPQWFCNPL 16
```

```
Search completed: September 8, 2004, 15:58:37
Job time : 43.85 secs
```


GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-141
Perfect score: 105
Sequence: 1 DWCEWLKQWFCNAL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pap.*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pap.*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pap.*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pap.*
5: /cgn2_6/ptodata/2/iaa/PCTUS.COMB.pap.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	49	46.7	1129	4	US-09-252-991A-28552
2	47	44.8	677	3	US-09-061-768A-4
3	47	44.8	677	4	US-09-764-246-4
4	46	43.8	71	4	US-09-621-976-5666
5	46	43.8	423	3	US-08-943-714-9
6	44.5	42.4	89	4	US-09-621-976-7155
7	44	41.9	411	2	US-08-568-459A-20
8	44	41.9	411	2	US-08-487-826B-32
9	44	41.9	411	4	US-09-210-288-20
10	44	41.9	2710	2	US-08-568-459A-12
11	44	41.9	2710	2	US-08-487-826B-12
12	44	41.9	2710	4	US-09-210-288-12
13	44	41.9	3060	2	US-08-487-826B-14
14	43	41.0	21	4	US-09-337-227C-27
15	43	41.0	21	4	US-09-723-251A-27
16	43	41.0	428	4	US-09-489-039A-12688
17	43	41.0	725	4	US-10-164-595-30
18	42.5	40.5	381	4	US-09-721-870-28
19	42.5	40.5	491	1	US-09-640-305-4
20	42.5	40.5	491	1	US-08-360-673-4
21	42	40.0	152	4	US-09-199-637A-269
22	42	40.0	475	4	US-09-252-991A-28111
23	42	40.0	1122	4	US-09-489-039A-8554
24	42	40.0	1284	4	US-09-170-496D-294
25	42	40.0	1284	4	US-09-364-425B-29
26	41	39.0	24	1	US-08-484-635-86
27	41	39.0	24	2	US-08-484-631-86

```

28 41 39.0 24 2 US-08-827-570-86 Sequence 86, Appl
29 41 39.0 63 4 US-09-497-491-47 Sequence 47, Appl
30 41 39.0 170 4 US-09-452-991A-21369 Sequence 21369, A
31 41 39.0 227 4 US-08-213-419B-13 Sequence 13, Appl
32 40.5 38.6 20 2 US-07-894-063A-6 Sequence 6, Appl
33 40.5 38.6 30 1 US-08-262-037-16 Sequence 16, Appl
34 40.5 38.6 38 1 US-08-262-037-95 Sequence 95, Appl
35 40.5 38.6 47 1 US-08-262-037-96 Sequence 96, Appl
36 40.5 38.6 106 3 US-08-444-818-24 Sequence 24, Appl
37 40.5 38.6 176 3 US-08-444-818-28 Sequence 28, Appl
38 40.5 38.6 360 4 US-08-850-328-4 Sequence 4, Appl
39 40.5 38.6 516 3 US-08-867-611-6 Sequence 6, Appl
40 40.5 38.6 516 4 US-09-630-359-6 Sequence 6, Appl
41 40.5 38.6 516 5 PCT-US92-08965A-11 Sequence 11, Appl
42 40.5 38.6 798 3 US-08-867-611-36 Sequence 36, Appl
43 40.5 38.6 798 4 US-09-690-359-36 Sequence 36, Appl
44 40.5 38.6 859 3 US-08-444-818-30 Sequence 30, Appl
45 40.5 38.6 1040 4 US-10-104-966-9 Sequence 9, Appl

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ALIGNMENTS

RESULT 1
US-09-252-991A-28552
; Sequence 28552, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252.991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28552
; LENGTH: 1129
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28552

Query Match Best Local Similarity 46.7%; Score 49; DB 4; Length 1129;
Matches 7; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

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QY 2 WVCWLKQWFCNAL 16
DB 933 WPSNWLPMNCRAV 947

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RESULT 2
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage


```
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/487,826B
;; FILING DATE: 10-SEP-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Israel, Ned
;; REGISTRATION NUMBER: 29,655
;; REFERENCE/DOCKET NUMBER: NIH121.001CP1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (619) 235-8550
;; TELEFAX: (619) 235-0176
;; INFORMATION FOR SEQ ID NO: 32:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 411 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE: internal
;; ORIGINAL SOURCE:
US-08-487-826B-32

Query Match 41.9%; Score 44; DB 2; Length 411;
Best Local Similarity 42.9%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 3; Indels 3; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15
Db 229 WMTW--AEWYCKA 240

RESULT 9
US-09-210-288-20
; Sequence 20, Application US/09210288
; Patent No. 6392026
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/210,288
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fuller, Michael
; REGISTRATION NUMBER: 36,516
; REFERENCE/DOCKET NUMBER: NIH121.1FWDV1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 411 amino acids
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;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE: internal
;; ORIGINAL SOURCE:
US-09-210-288-20

Query Match 41.9%; Score 44; DB 4; Length 411;
Best Local Similarity 42.9%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15
Db 229 WMTW--AEWYCKA 240

RESULT 10
US-08-568-459A-12
; Sequence 12, Application US/08568459A
; Patent No. 5849306
; GENERAL INFORMATION:
; APPLICANT: Sim, Kim L.
; APPLICANT: Chitnis, Chetan
; APPLICANT: Miller, Louis H.
; APPLICANT: Peterson, David S.
; APPLICANT: Su, Xin-zhaun
; APPLICANT: Wellens, Thomas E.
; TITLE OF INVENTION: BINDING DOMAINS FROM PLASMODIUM VIVAX
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Knobbe Martens Olson & Bear
; STREET: 620 Newport Center Drive 16th Floor
; CITY: Newport Beach
; STATE: California
; COUNTRY: US
; ZIP: 92660
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/568,459A
; FILING DATE: 07-DEC-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israel, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2710 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: Plasmodium falciparum
US-08-568-459A-12

Query Match 41.9%; Score 44; DB 2; Length 2710;
Best Local Similarity 42.9%; Pred. No. 4.4e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

QY 2 WVCEWLKMQWFCNA 15
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14

Query Match          41.9%; Score 44; DB 2; Length 3060;
Best Local Similarity 42.9%; Pred. No. 5e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKMQWFCNA 15
Db 1136 MWTEW--AEWYCKA 1147

RESULT 14
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P107IP2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match          41.0%; Score 43; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 3.9;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWFC 13
Db 3 WVCRAGLQWLIC 14

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/487,826B
; FILING DATE: 10-SEP-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Israelsen, Ned
; REGISTRATION NUMBER: 29,655
; REFERENCE/DOCKET NUMBER: NIH121.001CP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 235-8550
; TELEFAX: (619) 235-0176
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3060 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-487-826B-14

Query Match          41.9%; Score 44; DB 2; Length 3060;
Best Local Similarity 42.9%; Pred. No. 5e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 2; Gaps 1;

Qy 2 WVCEWLKMQWFCNA 15
Db 1136 MWTEW--AEWYCKA 1147

RESULT 15
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-140
Perfect score: 103
Sequence: 1 DWVCEWLKMQWACNLL 16

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Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues
Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/PCTUS_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
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8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	16	11	US-09-825-517A-112
2	103	100.0	16	11	US-09-825-517A-122
3	103	100.0	16	11	US-09-825-517A-140
4	102	99.0	16	11	US-09-825-517A-125
5	102	99.0	16	11	US-09-825-517A-142
6	100	97.1	16	11	US-09-825-517A-54
7	100	97.1	16	11	US-09-825-517A-138
8	100	97.1	16	11	US-09-825-517A-143
9	92	89.3	16	11	US-09-825-517A-49
10	92	89.3	16	11	US-09-825-517A-141
11	92	89.3	16	11	US-09-825-517A-151
12	89	86.4	16	11	US-09-825-517A-101
13	88	85.4	16	11	US-09-825-517A-126
14	85	82.5	16	11	US-09-825-517A-115
15	85	82.5	16	11	US-09-825-517A-146

16	85	82.5	16	11	US-09-825-517A-148	Sequence 148, App
17	84	81.6	16	11	US-09-825-517A-130	Sequence 130, App
18	84	81.6	16	11	US-09-825-517A-144	Sequence 144, App
19	79	76.7	16	11	US-09-825-517A-68	Sequence 68, Appl
20	79	76.7	16	11	US-09-825-517A-107	Sequence 107, App
21	78	75.7	16	11	US-09-825-517A-80	Sequence 80, Appl
22	78	75.7	16	11	US-09-825-517A-139	Sequence 139, App
23	78	75.7	16	11	US-09-825-517A-147	Sequence 147, App
24	77	74.8	16	11	US-09-825-517A-75	Sequence 75, Appl
25	77	74.8	16	11	US-09-825-517A-76	Sequence 76, Appl
26	77	74.8	16	11	US-09-825-517A-104	Sequence 104, App
27	77	74.8	16	11	US-09-825-517A-117	Sequence 117, App
28	77	74.8	16	11	US-09-825-517A-135	Sequence 135, App
29	77	74.8	16	11	US-09-825-517A-137	Sequence 137, App
30	76	73.8	16	11	US-09-825-517A-59	Sequence 59, Appl
31	76	73.8	16	11	US-09-825-517A-67	Sequence 67, Appl
32	76	73.8	16	11	US-09-825-517A-82	Sequence 82, Appl
33	76	73.8	16	11	US-09-825-517A-90	Sequence 90, Appl
34	76	73.8	16	11	US-09-825-517A-103	Sequence 103, App
35	76	73.8	16	11	US-09-825-517A-105	Sequence 105, App
36	76	73.8	16	11	US-09-825-517A-106	Sequence 106, App
37	76	73.8	16	11	US-09-825-517A-127	Sequence 127, App
38	75	72.8	16	11	US-09-825-517A-65	Sequence 65, Appl
39	75	72.8	16	11	US-09-825-517A-86	Sequence 86, Appl
40	75	72.8	16	11	US-09-825-517A-113	Sequence 113, App
41	75	72.8	16	11	US-09-825-517A-150	Sequence 150, App
42	73	70.9	16	11	US-09-825-517A-72	Sequence 72, Appl
43	73	70.9	16	11	US-09-825-517A-100	Sequence 100, App
44	73	70.9	16	11	US-09-825-517A-118	Sequence 118, App
45	72	69.9	16	11	US-09-825-517A-88	Sequence 88, Appl

ALIGNMENTS

RESULT 1
US-09-825-517A-112
; Sequence 112, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; TYPE: PRT
; LENGTH: 16
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-112

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 DWVCEWLKMQWACNLL 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEWLKMQWACNLL 16

RESULT 2
US-09-825-517A-122
; Sequence 122, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 122
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-122

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 3
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match 100.0%; Score 103; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 4
US-09-825-517A-125
; Sequence 125, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 125
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 5
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match 99.0%; Score 102; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.3e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNVL 16
Db 1 DWVCEWLKQWACNVL 16

RESULT 6
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT

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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54
Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
   |||||
Db 1 DWVCEWLKQWACNML 16
   |||||

RESULT 7
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 138
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-138
Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
   |||||
Db 1 DWVCEWLKQWACNML 16
   |||||

RESULT 8
US-09-825-517A-143
; Sequence 143, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 143
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-143
Query Match          97.1%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 9.9e-07;
```

```
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
   |||||
Db 1 DWVCEWLKQWACNML 16
   |||||

RESULT 9
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49
Query Match          89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
   |||||
Db 1 DWVCEFLKQWACNVL 16
   |||||

RESULT 10
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141
Query Match          89.3%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEWLKQWACNVL 16
   |||||
Db 1 DWVCEWLKQWACNML 16
   |||||
```

RESULT 11

US-09-825-517A-151
 ; Sequence 151, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 151
 ; TYPE: PRT
 ; LENGTH: 16
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-151

Query Match 89.3%; Score 92; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.1e-05; Indels 0;
 Matches 14; Conservative 2; Mismatches 0; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
 ||||| ||||| |||||
 Db 1 DWVCEFLKMQWACNVL 16

RESULT 12

US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; TYPE: PRT
 ; LENGTH: 16
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-101

Query Match 86.4%; Score 89; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.8e-05; Indels 0;
 Matches 13; Conservative 1; Mismatches 2; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
 ||||| ||||| |||||
 Db 1 DWVCEWSKMQWSCNAL 16

RESULT 13

US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; TYPE: PRT
 ; LENGTH: 16
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 85.4%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.9e-05; Indels 0;
 Matches 13; Conservative 1; Mismatches 2; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
 ||||| ||||| |||||
 Db 1 DWVCEWLKMQWACNVL 16

RESULT 14

US-09-825-517A-115
 ; Sequence 115, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 115
 ; TYPE: PRT
 ; LENGTH: 16
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-115

Query Match 82.5%; Score 85; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 9.7e-05; Indels 0;
 Matches 12; Conservative 1; Mismatches 3; Gaps 0;

QY 1 DWVCEWLKMQWACNVL 16
 ||||| ||||| |||||
 Db 1 DWVCEWFKPWICNLL 16

RESULT 15

US-09-825-517A-146
 ; Sequence 146, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Isaac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
```

```
Query Match      82.5%; Score 85; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 9.7e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 DWVCEWLKQWACNIL 16
          ||||| |||||
Db      1 DWVCEWLKQWFCNSL 16
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Search completed: September 8, 2004, 15:58:37
Job time : 44.85 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-140
Perfect score: 103
Sequence: 1 DWCEWLKQWACNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/iaa/5A COMB.pcp.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pcp.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pcp.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pcp.*
5: /cgn2_6/ptodata/2/iaa/PTUS COMB.pcp.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	44.7	677	3	US-09-061-768A-4
2	46	44.7	677	4	US-09-764-246-4
3	45	43.7	71	4	US-09-621-976-5666
4	45	43.7	1129	4	US-09-252-991A-28552
5	44.5	43.2	491	1	US-09-640-305-4
6	44.5	43.2	491	1	US-08-360-673-4
7	44	42.7	89	4	US-09-621-976-7155
8	44	42.7	423	3	US-08-943-714-9
9	43	41.7	428	4	US-09-489-039A-12688
10	42	40.8	21	4	US-09-337-227C-27
11	42	40.8	21	4	US-09-723-251A-27
12	42	40.8	393	1	US-08-689-974-4
13	42	40.8	393	3	US-09-058-376-4
14	42	40.8	501	2	US-08-288-508C-2
15	42	40.8	501	4	US-08-981-490B-1
16	41	39.8	63	4	US-09-497-491-47
17	41	39.8	170	4	US-09-252-991A-21369
18	41	39.8	382	4	US-09-252-991A-32166
19	41	39.8	1956	3	US-08-843-417-10
20	41	39.8	1956	4	US-09-527-013-10
21	41	39.8	1956	4	US-09-527-013-10
22	40.5	39.3	20	2	US-07-894-063A-6
23	40.5	39.3	30	1	US-08-262-037-16
24	40.5	39.3	38	1	US-08-262-037-95
25	40.5	39.3	38	1	US-08-262-037-96
26	40.5	39.3	106	3	US-08-444-818-24
27	40.5	39.3	176	3	US-08-444-818-28

28	40.5	39.3	360	4	US-08-850-328-4	Sequence 4, Appli
29	40.5	39.3	516	3	US-08-867-611-6	Sequence 6, Appli
30	40.5	39.3	516	4	US-09-690-359-6	Sequence 6, Appli
31	40.5	39.3	516	5	PCT-US92-06965A-11	Sequence 11, Appl
32	40.5	39.3	798	3	US-08-867-611-36	Sequence 36, Appl
33	40.5	39.3	798	4	US-09-690-359-36	Sequence 36, Appl
34	40.5	39.3	859	3	US-08-444-818-30	Sequence 30, Appl
35	40.5	39.3	1040	4	US-10-104-966-9	Sequence 9, Appli
36	40.5	39.3	1786	3	US-08-444-818-54	Sequence 54, Appl
37	40.5	39.3	2261	3	US-08-444-818-66	Sequence 66, Appl
38	40.5	39.3	2436	3	US-08-444-818-75	Sequence 75, Appl
39	40.5	39.3	2772	3	US-08-444-818-89	Sequence 89, Appl
40	40.5	39.3	2894	2	US-08-466-975A-23	Sequence 23, Appl
41	40.5	39.3	2894	3	US-08-391-671A-23	Sequence 23, Appl
42	40.5	39.3	2894	3	US-08-467-902A-23	Sequence 23, Appl
43	40.5	39.3	2894	3	US-09-275-265-23	Sequence 23, Appl
44	40.5	39.3	2894	4	US-09-941-611-23	Sequence 23, Appl
45	40.5	39.3	2955	2	US-08-443-260-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061.768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4

Query Match 44.7%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 46;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;
2 WVCEWLKQW 11
QY

2


```

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
DB 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688 Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 79;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK-MQW 11
DB 110 NWIFEWAKEMQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/943,714
; FILING DATE: 03-OCT-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4990.200-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-943-714-9

Query Match 42.7%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 56;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEWL 7
DB 340 DWICNWL 346

RESULT 9
US-09-489-039A-12688
; Sequence 12688 Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: 2709.2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 12688
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.7%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 79;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

QY 1 DWVCEWLK-MQW 11
DB 110 NWIFEWAKEMQW 122

RESULT 10
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C

; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/552,888
; FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
DB 3 WVCRAQLQWLC 14

RESULT 11
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 40.8%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.5;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEWLKMQWAC 13
DB 3 WVCRAQLQWLC 14

RESULT 12
US-08-689-974-4
; Sequence 4, Application US/08689974
; Patent No. 5776732
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:

```

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: U.S.

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/689,974

FILING DATE: Filed Herewith

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 393 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

IMMEDIATE SOURCE:

LIBRARY: GenBank

CLONE: 459890

US-08-689-974-4

Query Match 40.8%; Score 42; DB 1; Length 393;

Best Local Similarity 41.2%; Pred. No. 1e+02;

Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNIL 16

Db 360 WLAVWFKMGSSWLCILL 376

RESULT 13

US-09-058-376-4

Sequence 4, Application US/09058376

Patent No. 6080841

GENERAL INFORMATION:

APPLICANT: Au-Young, Janice

APPLICANT: Hawkins, Phillip R.

APPLICANT: Murray, Lynn E.

TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.

STREET: 3174 Porter Drive

CITY: Palo Alto

STATE: CA

COUNTRY: U.S.

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 1.5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/058,376

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/689,974

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J.

REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 393 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

IMMEDIATE SOURCE:

LIBRARY: GenBank

CLONE: 459890

US-09-058-376-4

Query Match 40.8%; Score 42; DB 3; Length 393;

Best Local Similarity 41.2%; Pred. No. 1e+02;

Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 2 WVCEWLKM--QWACNIL 16

Db 360 WLAVWFKMGSSWLCILL 376

RESULT 14

US-08-288-508C-2

Sequence 2, Application US/08288508C

Patent No. 5934094

GENERAL INFORMATION:

APPLICANT: H tten, Gertrud

APPLICANT: Neidhardt, Helge

APPLICANT: Paulista, Michael

TITLE OF INVENTION: NEW GROWTH/DIFFERENTIATING FACTOR OF

TITLE OF INVENTION: THE TGF- FAMILY

NUMBER OF SEQUENCES: 40

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP

STREET: 655 Fifteenth Street N.W. Suite 330

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20005-5701

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/288,508C

FILING DATE: 10-AUG-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: DE P 43 26 829.3

FILING DATE: 10-AUG-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: DE P 44 18 222.8

FILING DATE: 25-MAY-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: DE P 44 20 157.5

FILING DATE: 09-JUN-1994

ATTORNEY/AGENT INFORMATION:

NAME: JAHNS, Kristina M.

REGISTRATION NUMBER: P-41,092

REFERENCE/DOCKET NUMBER: P564-4019

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)638-5000

TELEFAX: (202)638-4810

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 501 amino acids

TYPE: amino acid

TOPOLOGY: linear

; MOLECULE TYPE: protein
US-08-288-508C-2

Query Match 40.8%; Score 42; DB 2; Length 501;
Best Local Similarity 33.3%; Pred. No. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
Qy 2 WVCEWLKQWACNIL 16
Db 12 WYLAWLDFICTVL 26

RESULT 15

US-08-981-490B-1
; Sequence 1, Application US/08981490B
; Patent No. 6531450
; GENERAL INFORMATION:
; APPLICANT: Hotten, Gertrud
; APPLICANT: Pohl, Jens
; APPLICANT: Bechtold, Rolf
; APPLICANT: Paulista, Michael
; APPLICANT: Unsicker, Klaus
; TITLE OF INVENTION: USE OF MP52 OR MP121 FOR TREATING AND PREVENTING DISEASES OF THE
; TITLE OF INVENTION: NERVOUS SYSTEM
; FILE REFERENCE: 100564-07032
; CURRENT APPLICATION NUMBER: US/08/981,490B
; CURRENT FILING DATE: 1998-05-18
; PRIOR APPLICATION NUMBER: PCT/EP96/03065
; PRIOR FILING DATE: 1996-07-12
; PRIOR APPLICATION NUMBER: DE/195 25 416.3
; PRIOR FILING DATE: 1995-07-12
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 501
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-981-490B-1

Query Match 40.8%; Score 42; DB 4; Length 501;
Best Local Similarity 33.3%; Pred. No. 1.3e+02;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;
Qy 2 WVCEWLKQWACNIL 16
Db 12 WYLAWLDFICTVL 26

Search completed: September 8, 2004, 14:31:51
Job time : 13.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-139
Perfect score: 102
Sequence: 1 DWVCEYFKNQWLCNII 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep:*
- 2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep:*
- 8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/prodata/1/pubpaa/US09A_PUBCOMB.pep:*
- 10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep:*
- 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep:*
- 17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	102	100.0	16	11	US-09-825-517A-139
2	97	95.1	16	11	US-09-825-517A-59
3	92	90.2	16	11	US-09-825-517A-105
4	89	87.3	16	11	US-09-825-517A-80
5	89	87.3	16	11	US-09-825-517A-150
6	88	86.3	16	11	US-09-825-517A-104
7	88	86.3	16	11	US-09-825-517A-109
8	88	86.3	16	11	US-09-825-517A-137
9	87	85.3	16	11	US-09-825-517A-75
10	86	84.3	16	11	US-09-825-517A-76
11	86	84.3	16	11	US-09-825-517A-86
12	85	83.3	16	11	US-09-825-517A-115
13	84	82.4	16	11	US-09-825-517A-126
14	84	82.4	16	11	US-09-825-517A-128
15	83	81.4	16	11	US-09-825-517A-67

Sequence 107, App
Sequence 127, App
Sequence 50, Appl
Sequence 82, Appl
Sequence 100, App
Sequence 130, App
Sequence 147, App
Sequence 55, Appl
Sequence 88, Appl
Sequence 95, Appl
Sequence 119, App
Sequence 52, Appl
Sequence 116, App
Sequence 49, Appl
Sequence 68, Appl
Sequence 91, Appl
Sequence 112, App
Sequence 122, App
Sequence 140, App
Sequence 149, App
Sequence 151, App
Sequence 42, Appl
Sequence 56, Appl
Sequence 61, Appl
Sequence 113, App
Sequence 118, App
Sequence 125, App
Sequence 129, App
Sequence 142, App
Sequence 148, App

ALIGNMENTS

RESULT 1
US-09-825-517A-139
; Sequence 139, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTI-GEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 139
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-139

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.1e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 DWVCEYFKNQWLCNII 16
| | | | | | | | | | | | | | | |
Db 1 DWVCEYFKNQWLCNII 16

RESULT 2
US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

```

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

```

```

Query Match      95.1%; Score 97; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 5.8e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKQWLCNVL 16
        |||||:|||||:|:|
Db       1 DWVCEYFKQWFCNVL 16

```

RESULT 3

```

US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

```

```

Query Match      90.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.9e-06;
Matches 13; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKQWLCNVL 16
        |||||:|||||:|:|
Db       1 DWVCEYFKSQWMCNVL 16

```

RESULT 4

```

US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

```

```

Query Match      87.3%; Score 89; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 7.7e-06;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKQWLCNVL 16
        |||||:|||||:|:|
Db       1 DWVCEYFKQWMCNVL 16

```

RESULT 5

```

US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

```

```

Query Match      87.3%; Score 89; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.7e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1 DWVCEYFKQWLCNVL 16
        |||||:|||||:|:|
Db       1 DWVCEYFKQWFCNVL 16

```

RESULT 6

```

US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.1e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEFFKQWMCNII 16

RESULT 7
US-09-825-517A-109
; Sequence 109, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 109
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-109

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.1e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEYFKQWFCDTL 16

RESULT 8
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 1.1e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEYFKQWFCDTL 16

RESULT 9
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match      85.3%; Score 87; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 1.5e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEFFKQWFCNVL 16

RESULT 10
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      84.3%; Score 86; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 2e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEYFKQWLCNII 16
   |||||:|:|:|:|
Db 1 DWVCEFFKQWSCNVL 16
```

RESULT 11
 US-09-825-517A-86
 ; Sequence 86, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 86
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-86

Query Match 84.3%; Score 86; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 2e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEYFKQWLCNLL 16
 |||||:|||||:
 Db 1 DWVCEFFKQWFCNLL 16

RESULT 12
 US-09-825-517A-115
 ; Sequence 115, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 115
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-115

Query Match 83.3%; Score 85; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 2.8e-05;
 Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEYFKQWLCNLL 16
 |||||:|||||:
 Db 1 DWVCEWFKQWFCNLL 16

RESULT 13
 US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 82.4%; Score 84; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 3.9e-05;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEYFKQWLCNLL 16
 |||||:|||||:
 Db 1 DWVCEWLNQWQWNCNVL 16

RESULT 14
 US-09-825-517A-128
 ; Sequence 128, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 128
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-128

Query Match 82.4%; Score 84; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 3.9e-05;
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEYFKQWLCNLL 16
 |||||:|||||:
 Db 1 DWVCEWLNQWQWNCNVL 16

RESULT 15
 US-09-825-517A-67
 ; Sequence 67, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

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; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67
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Query Match      81.4%; Score 83; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 5.4e-05;
Matches 12; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
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Qy      1 DWVCEYFKNOWLNCNIL 16
      |||||:|||||
Db      1 DWVCEFYKQWNCNIL 16
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Search completed: September 8, 2004, 15:58:36
Job time : 43.85 secs
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Db 18 DAVCEYFSEQLKNLL 33

RESULT 2
US-08-328-256-12
; Sequence 12, Application US/08328256
; Patent No. 5643749
; GENERAL INFORMATION:
; APPLICANT: REVEL, Michel
; APPLICANT: ABRAMOVICH, Carolina
; APPLICANT: RATOVITSKI, Edward
; TITLE OF INVENTION: SOLUBLE INTERFERON ALPHA-RECEPTOR, ITS
; PREPARATION AND USE
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/328,256
; FILING DATE: 24-OCT-1994
; PRIORITY DATE: 24-OCT-1994
; APPLICATION NUMBER: IL 107378
; FILING DATE: 24-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: BROWDY, Roger L.
; REGISTRATION NUMBER: REVEL=13
; REFERENCE/DOCKET NUMBER: 25,618
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 496 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-328-256-12

Query Match 47.1%; Score 48; DB 1; Length 496;
Best Local Similarity 62.5%; Pred. No. 23;
Matches 10; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 1 DWCEYFKNQWLCNLL 16
Db 415 DAVCEYFSEQLKNLL 430

RESULT 3
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C

; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 43.1%; Score 44; DB 4; Length 21;
Best Local Similarity 58.3%; Pred. No. 3.5;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEYFKNQWLC 13
Db 3 WVCRAQLQWLC 14

RESULT 4
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27

Query Match 43.1%; Score 44; DB 4; Length 21;
Best Local Similarity 58.3%; Pred. No. 3.5;
Matches 7; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2 WVCEYFKNQWLC 13
Db 3 WVCRAQLQWLC 14

RESULT 5
US-09-621-976-5666
; Sequence 5666, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976

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; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5666
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -24...-1
; US-09-621-976-5666

Query Match 43.1%; Score 44; DB 4; Length 71;
Best Local Similarity 46.2%; Pred. No. 12;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 DWCEYFKQWLC 13
Db 54 DWNCVWPHHLC 66

RESULT 6
US-09-134-000C-6254
; Sequence 6254, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6254
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (5)..(22)
; OTHER INFORMATION: Amino acids 5, 8, 12-15 & 22 are Xaa wherein Xaa =
; OTHER INFORMATION: any amino acid.
; OTHER INFORMATION: 1
; US-09-134-000C-6254

Query Match 43.1%; Score 44; DB 4; Length 293;
Best Local Similarity 58.3%; Pred. No. 51;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 5 EYFKQWLCNIL 16
Db 202 EHFKNWLIKLL 213

RESULT 7
US-09-621-976-5370
; Sequence 5370, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5370
; LENGTH: 97

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -83...-1
; US-09-621-976-5370

Query Match 41.2%; Score 42; DB 4; Length 97;
Best Local Similarity 50.0%; Pred. No. 32;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 4 CEYFKQWLC 13
Db 13 CKYMSNFWIC 22

RESULT 8
US-08-414-926A-5
; Sequence 5, Application US/08414926A
; Patent No. 5721354
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum
; STREET: 5 Palo Alto Square
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306-2155
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/414,926A
; APPLICATION NUMBER: US/08/414,926A
; FILING DATE: March 31, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Cseri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR-011/OOUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-7622
; TELEFAX: 415-857-0663
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-414-926A-5

Query Match 41.2%; Score 42; DB 1; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCYFKQW 11
Db 307 WVCSEPKHEW 316

RESULT 9
US-08-926-922-5
; Sequence 5, Application US/08926922
; Patent No. 5925751
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; APPLICANT: Cha, Tai-An
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS

```

NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSES: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-926-922-5

Query Match 41.2%; Score 42; DB 2; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKNOW 11
Db 307 WVCEPKHEW 316

RESULT 10
US-09-253-682-5
Sequence 5, Application US/09253682
Patent No. 6040170
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/253,682
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A

TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-253-682-5

Query Match 41.2%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKNOW 11
Db 307 WVCEPKHEW 316

RESULT 11
US-09-527-657-5
Sequence 5, Application US/09527657
Patent No. 6291236
GENERAL INFORMATION:
APPLICANT: Spaete, Richard
APPLICANT: Cha, Tai-An
TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Luann Cserr Attorney at Law
STREET: 750 Arimo Avenue
CITY: Oakland
STATE: CA
COUNTRY: USA
ZIP: 94610
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/527,657
FILING DATE: 17-Mar-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/926,922
FILING DATE: September 10, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Cserr, Luann
REGISTRATION NUMBER: 31,822
REFERENCE/DOCKET NUMBER: AVIR 11A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 510-834-1448
TELEFAX: 510-839-7810
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 399 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-527-657-5

Query Match 41.2%; Score 42; DB 3; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 2 WVCEYFKNOW 11
Db 307 WVCEPKHEW 316

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RESULT 12
US-09-892-100-5
; Sequence 5, Application US/09892100
; Patent No. 6635477
; GENERAL INFORMATION:
; APPLICANT: Spaete, Richard
; TITLE OF INVENTION: NOVEL HUMAN CYTOMEGALOVIRUS
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Luann Cserri Attorney at Law
; STREET: 750 Arimo Avenue
; CITY: Oakland
; STATE: CA
; COUNTRY: USA
; ZIP: 94610
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/892,100
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/527,657
; FILING DATE: 17-Mar-2000
; APPLICATION NUMBER: US/08/926,922
; FILING DATE: September 10, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Cserri, Luann
; REGISTRATION NUMBER: 31,822
; REFERENCE/DOCKET NUMBER: AVIR 11A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 510-834-1448
; TELEFAX: 510-839-7810
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 399 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-892-100-5
Query Match 41.2%; Score 42; DB 4; Length 399;
Best Local Similarity 60.0%; Pred. No. 1.4e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 WVCEYFKQW 11
Db 307 WVCEPKHEW 316

RESULT 13
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
```

```
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; US-09-061-768A-4
Query Match 41.2%; Score 42; DB 3; Length 677;
Best Local Similarity 45.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 WVCEYFKQWL 12
Db 88 WFCRWFLEWL 98

RESULT 14
US-09-764-246-4
; Sequence 4, Application US/09764246
; Patent No. 6649355
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/XT/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/764,246
; FILING DATE: 17-Jan-2001
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX: <Unknown>
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;
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-764-246-4

Query Match 41.2%; Score 42; DB 4; Length 677;
Best Local Similarity 45.5%; Pred. NO. 2.3e+02;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Oy 2 WVCEYFKQWL 12
Db 88 WFCWFLEWL 98

RESULT 15
US-08-484-635-86
; Sequence 86, Application US/08484635
; Patent No. 5773569
; GENERAL INFORMATION:
; APPLICANT: Wrighton, Nicholas C.
; APPLICANT: Dower, William J.
; APPLICANT: Chang, Ray S.
; APPLICANT: Kashyap, Arun K.
; APPLICANT: Jolliffe, Linda K.
; APPLICANT: Johnson, Dana
; APPLICANT: Mulcahy, Linda
; TITLE OF INVENTION: Compounds and Peptides That Bind to the
; TITLE OF INVENTION: Erythropoietin Receptor
; NUMBER OF SEQUENCES: 259
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew
; STREET: One Market Plaza, Steuart Street Tower
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94105-1492
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,635
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/155,940
; FILING DATE: 19-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Garrett-Wackowski, Eugenia
; REGISTRATION NUMBER: 37,330
; REFERENCE/DOCKET NUMBER: 16528A-43-1-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 543-9600
; TELEFAX: (415) 543-5043
; INFORMATION FOR SEQ ID NO: 86:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-484-635-86

Query Match 40.2%; Score 41; DB 1; Length 24;
Best Local Similarity 38.5%; Pred. NO. 11;
Matches 5; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

Oy 1 DWCEYFKQWL 13

Db 10 EYVCQWGEDTWLC 22

Search completed: September 8, 2004, 14:31:51
Job time : 14.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-138

Perfect score: 104
Sequence: 1 DWVCEWLKMQWACNML 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	100.0	16	11	US-09-825-517A-54
2	104	100.0	16	11	US-09-825-517A-138
3	104	100.0	16	11	US-09-825-517A-143
4	100	96.2	16	11	US-09-825-517A-112
5	100	96.2	16	11	US-09-825-517A-122
6	100	96.2	16	11	US-09-825-517A-125
7	100	96.2	16	11	US-09-825-517A-140
8	100	96.2	16	11	US-09-825-517A-142
9	92	88.5	16	11	US-09-825-517A-141
10	90	86.5	16	11	US-09-825-517A-49
11	90	86.5	16	11	US-09-825-517A-151
12	89	85.6	16	11	US-09-825-517A-101
13	88	84.6	16	11	US-09-825-517A-130
14	86	82.7	16	11	US-09-825-517A-126
15	86	82.7	16	11	US-09-825-517A-146

16	85	81.7	16	11	US-09-825-517A-115	Sequence 115, App
17	85	81.7	16	11	US-09-825-517A-144	Sequence 144, App
18	85	81.7	16	11	US-09-825-517A-148	Sequence 148, App
19	80	76.9	16	11	US-09-825-517A-68	Sequence 68, App1
20	80	76.9	16	11	US-09-825-517A-105	Sequence 105, App
21	78	75.0	16	11	US-09-825-517A-117	Sequence 117, App
22	76	73.1	16	11	US-09-825-517A-80	Sequence 80, App1
23	76	73.1	16	11	US-09-825-517A-90	Sequence 90, App1
24	76	73.1	16	11	US-09-825-517A-103	Sequence 103, App
25	76	73.1	16	11	US-09-825-517A-106	Sequence 106, App
26	76	73.1	16	11	US-09-825-517A-107	Sequence 107, App
27	76	73.1	16	11	US-09-825-517A-113	Sequence 113, App
28	76	73.1	16	11	US-09-825-517A-147	Sequence 147, App
29	75	72.1	16	11	US-09-825-517A-75	Sequence 75, App1
30	75	72.1	16	11	US-09-825-517A-76	Sequence 76, App1
31	75	72.1	16	11	US-09-825-517A-86	Sequence 86, App1
32	75	72.1	16	11	US-09-825-517A-135	Sequence 135, App
33	75	72.1	16	11	US-09-825-517A-139	Sequence 139, App
34	74	71.2	16	11	US-09-825-517A-59	Sequence 59, App1
35	74	71.2	16	11	US-09-825-517A-104	Sequence 104, App
36	74	71.2	16	11	US-09-825-517A-127	Sequence 127, App
37	74	71.2	16	11	US-09-825-517A-137	Sequence 137, App
38	73	70.2	16	11	US-09-825-517A-67	Sequence 67, App1
39	73	70.2	16	11	US-09-825-517A-72	Sequence 72, App1
40	73	70.2	16	11	US-09-825-517A-82	Sequence 82, App1
41	72	69.2	16	11	US-09-825-517A-65	Sequence 65, App1
42	72	69.2	16	11	US-09-825-517A-78	Sequence 78, App1
43	72	69.2	16	11	US-09-825-517A-150	Sequence 150, App
44	71	68.3	16	11	US-09-825-517A-91	Sequence 91, App1
45	71	68.3	16	11	US-09-825-517A-114	Sequence 114, App

ALIGNMENTS

RESULT 1
US-09-825-517A-54
; Sequence 54, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-54

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 3.3e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
|||||
Db 1 DWVCEWLKMQWACNML 16

RESULT 2
US-09-825-517A-138
; Sequence 138, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 138
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-138

Query Match 100.0%; Score 104; DB 11; Length 16;
 Best Local Similarity 100.0%; Pred. No. 3.3e-07;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
 Db 1 DWCEWLKQWACNML 16

RESULT 3
 US-09-825-517A-143
 ; Sequence 143, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 143
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-143

Query Match 100.0%; Score 104; DB 11; Length 16;
 Best Local Similarity 100.0%; Pred. No. 3.3e-07;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
 Db 1 DWCEWLKQWACNML 16

RESULT 4
 US-09-825-517A-112
 ; Sequence 112, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 112
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-112

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
 Db 1 DWCEWLKQWACNML 16

RESULT 5
 US-09-825-517A-122
 ; Sequence 122, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 122
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-122

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 1.1e-06;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEWLKQWACNML 16
 Db 1 DWCEWLKQWACNML 16

RESULT 6
 US-09-825-517A-125
 ; Sequence 125, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825.517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 125
 ; LENGTH: 16
 ; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-125

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 7
US-09-825-517A-140
; Sequence 140, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 140
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-140

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 8
US-09-825-517A-142
; Sequence 142, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 142
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-142

Query Match          96.2%; Score 100; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 1.1e-06;
Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWACNVL 16

RESULT 9
US-09-825-517A-141
; Sequence 141, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 141
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-141

Query Match          88.5%; Score 92; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.3e-05;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEWLKMQWFCNAL 16

RESULT 10
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

Query Match          86.5%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 2.3e-05;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKMQWACNML 16
Db 1 DWVCEFLKMQWACNVL 16
```

RESULT 11

US-09-825-517A-151
 ; Sequence 151, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 151
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-151

Query Match 86.5%; Score 90; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.3e-05;
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEFLKQWACNVL 16

RESULT 12

US-09-825-517A-101
 ; Sequence 101, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 101
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-101

Query Match 85.6%; Score 89; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.1e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEWSKQWSCNML 16

RESULT 13

US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 84.6%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 4.2e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEWFKQWFCNML 16

RESULT 14

US-09-825-517A-126
 ; Sequence 126, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 126
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-126

Query Match 82.7%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 7.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEWLKQWACNML 16
 |||||
 Db 1 DWVCEWLKQWACNVL 16

RESULT 15

US-09-825-517A-146
 ; Sequence 146, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-146
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Query Match      82.7%; Score 86; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY      1 DWVCEWLKQWACNML 16
        |||||
Db       1 DWVCEWLKQWFCNSL 16
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Search completed: September 8, 2004, 15:58:36
Job time : 43.85 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-138
Perfect score: 104
Sequence: 1 DWVCEWLKMQWACNML 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
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6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	44.2	677	3	US-09-061-768A-4
2	46	44.2	677	4	US-09-764-246-4
3	45	43.3	771	4	US-09-621-976-5666
4	45	43.3	1129	4	US-09-252-991A-28552
5	44.5	42.8	491	1	US-09-640-305-4
6	44.5	42.8	491	1	US-08-360-673-4
7	44	42.3	89	4	US-09-621-976-7155
8	44	42.3	423	3	US-08-943-714-9
9	43	41.3	428	4	US-09-489-039A-12688
10	42	40.4	21	4	US-09-337-227C-27
11	42	40.4	21	4	US-09-723-251A-27
12	42	40.4	393	1	US-08-689-974-4
13	42	40.4	393	3	US-09-058-376-4
14	42	40.4	989	3	US-09-110-517-4
15	41	39.4	63	4	US-09-497-431-47
16	41	39.4	170	4	US-09-252-991A-21369
17	41	39.4	208	4	US-09-252-991A-32166
18	41	39.4	382	4	US-09-252-991A-25095
19	41	39.4	1956	3	US-08-843-417-10
20	41	39.4	1956	4	US-09-527-013-10
21	40.5	38.9	20	2	US-07-894-063A-6
22	40.5	38.9	30	1	US-08-262-037-16
23	40.5	38.9	38	1	US-08-262-037-95
24	40.5	38.9	47	1	US-08-262-037-96
25	40.5	38.9	106	3	US-08-444-818-24
26	40.5	38.9	176	3	US-08-444-818-28
27	40.5	38.9	360	4	US-08-850-328-4

28	40.5	38.9	516	3	US-08-867-611-6	Sequence 6, Appli
29	40.5	38.9	516	4	US-09-690-359-6	Sequence 6, Appli
30	40.5	38.9	516	5	PCT-US92-06965A-11	Sequence 11, Appl
31	40.5	38.9	798	3	US-08-867-611-36	Sequence 36, Appl
32	40.5	38.9	798	4	US-09-690-359-36	Sequence 36, Appl
33	40.5	38.9	859	3	US-08-444-818-30	Sequence 30, Appl
34	40.5	38.9	1040	4	US-10-104-966-9	Sequence 9, Appli
35	40.5	38.9	1786	3	US-08-444-818-54	Sequence 54, Appl
36	40.5	38.9	2261	3	US-08-444-818-66	Sequence 66, Appl
37	40.5	38.9	2436	3	US-08-444-818-75	Sequence 75, Appl
38	40.5	38.9	2772	3	US-08-444-818-89	Sequence 89, Appl
39	40.5	38.9	2894	2	US-08-466-975A-23	Sequence 23, Appl
40	40.5	38.9	2894	2	US-08-391-671A-23	Sequence 23, Appl
41	40.5	38.9	2894	3	US-08-467-902A-23	Sequence 23, Appl
42	40.5	38.9	2894	3	US-09-275-265-23	Sequence 23, Appl
43	40.5	38.9	2894	4	US-09-941-611-23	Sequence 23, Appl
44	40.5	38.9	2955	2	US-08-443-260-3	Sequence 3, Appli
45	40.5	38.9	2955	3	US-08-442-805A-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-061-768A-4
; Sequence 4, Application US/09061768A
; Patent No. 6204037
; GENERAL INFORMATION:
; APPLICANT: BRASH, ALAN R.
; APPLICANT: BOEGLIN, WILLIAM E.
; APPLICANT: JISAKA, MITSUO
; TITLE OF INVENTION: LIPOXYGENASE PROTEINS AND NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARLES A. TAYLOR, JR.
; STREET: SUITE 1400, UNIVERSITY TOWER, 3100 TOWER BOULEVARD
; CITY: DURHAM
; STATE: NORTH CAROLINA
; COUNTRY: USA
; ZIP: 27707
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 MB storage
; COMPUTER: IBM PC/Xt/AT compatible
; OPERATING SYSTEM: Windows 3.1
; SOFTWARE: WORD PERFECT 6.1 and ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/061,768A
; FILING DATE: APRIL 16, 1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA: NONE
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARLES A. TAYLOR, JR.
; REGISTRATION NUMBER: 39,395
; REFERENCE/DOCKET NUMBER: 1242/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 493-8000
; TELEFAX: (919) 419-0383
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 677 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
US-09-061-768A-4

Query Match 44.2%; Score 46; DB 3; Length 677;
Best Local Similarity 40.0%; Pred. No. 44;
Matches 4; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 WVCEWLKMQW 11

SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/943,714
FILING DATE: 03-OCT-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4990.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
TELEX:
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 423 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-943-714-9

Query Match 42.3%; Score 44; DB 3; Length 423;
Best Local Similarity 71.4%; Pred. No. 53;
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEWL 7
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Db 340 DWICNWL 346

RESULT 9

US-09-489-039A-12688
Sequence 12688, Application US/09489039A
Patent No. 6610836
GENERAL INFORMATION:

APPLICANT: Gary Breton et. al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 2709.2004001
CURRENT APPLICATION NUMBER: US/09/489,039A
CURRENT FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: US 60/117,747
PRIOR FILING DATE: 1999-01-29
NUMBER OF SEQ ID NOS: 14342
SEQ ID NO 12688
LENGTH: 428
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-09-489-039A-12688

Query Match 41.3%; Score 43; DB 4; Length 428;
Best Local Similarity 53.8%; Pred. No. 76;
Matches 7; Conservative 2; Mismatches 2; Indels 2; Gaps 1;

Qy 1 DWVCEWL--MQW 11
:|:|:|
Db 110 NWIFWAKEAMQW 122

RESULT 10

US-09-337-227C-27
Sequence 27, Application US/09337227C
Patent No. 6420518
GENERAL INFORMATION:

APPLICANT: Chen, Yvonne May-Yee
APPLICANT: Clark, Ross G.
APPLICANT: Cochran, Andrea G.
APPLICANT: Lowman, Henry B.
APPLICANT: Robinson, Iain C.A.F.
APPLICANT: Skelton, Nicholas J.
TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
FILE REFERENCE: P1071P2.rev
CURRENT APPLICATION NUMBER: US/09/337,227C

CURRENT FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 09/052,888
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27

LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6420518
US-09-337-227C-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
|||:|
Db 3 WVCRAGPLQWLC 14

RESULT 11

US-09-723-251A-27
Sequence 27, Application US/09723251A
Patent No. 6608028
GENERAL INFORMATION:

APPLICANT: Chen, Yvonne May-Yee
APPLICANT: Clark, Ross G.
APPLICANT: Cochran, Andrea G.
APPLICANT: Lowman, Henry B.
APPLICANT: Robinson, Iain C.A.F.
APPLICANT: Skelton, Nicholas J.
TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
FILE REFERENCE: P1071P2C1.2Rev
CURRENT APPLICATION NUMBER: US/09/723,251A
CURRENT FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: US 09/337,227
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: US 08/825,852
PRIOR FILING DATE: 1997-04-04
NUMBER OF SEQ ID NOS: 51
SEQ ID NO 27
LENGTH: 21
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Sequence is synthesized
Patent No. 6608028
US-09-723-251A-27

Query Match 40.4%; Score 42; DB 4; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.4;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWAC 13
|||:|
Db 3 WVCRAGPLQWLC 14

RESULT 12

US-08-689-974-4
Sequence 4, Application US/08689974
Patent No. 5776732
GENERAL INFORMATION:

APPLICANT: Au-Young, Janice
APPLICANT: Hawkins, Phillip R.
APPLICANT: Murray, Lynn E.
TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:

ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/689,974
FILING DATE: Filed Herewith
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-08-689-974-4

Query Match 40.4%; Score 42; DB 1; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 2 WVCEWLKM--QWACNML 16
|: ||| ||| :|
Db 360 WLAVFKMGSSWLCLL 376

RESULT 13
US-09-58-376-4
; Sequence 4, Application US/09058376
; Patent No. 6080841
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Hawkins, Philip R.
; APPLICANT: Murray, Lynn E.
; TITLE OF INVENTION: NOVEL HUMAN INDUCED TUMOR PROTEIN
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/058,376
; FILING DATE:
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: US/08/689,974
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749

REFERENCE/DOCKET NUMBER: PF-0113 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 393 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 459890
US-09-058-376-4

Query Match 40.4%; Score 42; DB 3; Length 393;
Best Local Similarity 41.2%; Pred. No. 97;
Matches 7; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

Qy 2 WVCEWLKM--QWACNML 16
|: ||| ||| :|
Db 360 WLAVFKMGSSWLCLL 376

RESULT 14
US-09-110-517-4
; Sequence 4, Application US/09110517A
; Patent No. 6248520
; GENERAL INFORMATION:
; APPLICANT: Roeder, Robert G
; APPLICANT: Fondell, Joseph D
; APPLICANT: Yuan, Chao X
; APPLICANT: Ito, Mitsuhiro
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING NUCLEAR HORMONE
; TITLE OF INVENTION: RECEPTOR COACTIVATORS AND USES THEREOF
; FILE REFERENCE: 600-1-224
; CURRENT APPLICATION NUMBER: US/09/110,517A
; CURRENT FILING DATE: 1998-07-06
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 989
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-110-517-4

Query Match 40.4%; Score 42; DB 3; Length 989;
Best Local Similarity 50.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 WVCEWLKMQWACNM 15
|: ||| ||| |||
Db 14 WKRWSDYQWAINM 27

RESULT 15
US-09-497-491-47
; Sequence 47, Application US/09497491
; Patent No. 6630573
; GENERAL INFORMATION:
; APPLICANT: Walker, Craig
; APPLICANT: Shetty, Reshma
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: Hooper, David
; APPLICANT: Jacobsen, Richard
; APPLICANT: Steele, Doug
; APPLICANT: Jones, Robert M.
; TITLE OF INVENTION: Tau-Conotoxin Peptides
; FILE REFERENCE: Tau-Conopeptides
; CURRENT APPLICATION NUMBER: US/09/497,491
; CURRENT FILING DATE: 2000-02-04
; EARLIER APPLICATION NUMBER: US 60/118,642

; EARLIER FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Conus gloriamaris
US-09-497-491-47

Query Match 39.4%; Score 41; DB 4; Length 63;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEW 6
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Db 57 DWCCCEW 62

Search completed: September 8, 2004, 14:31:50
Job time : 13.3 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-137

Perfect score: 102
Sequence: 1 DWCEFFKSWQYCNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	102	100.0	16	11	US-09-825-517A-137
2	94	92.2	16	11	US-09-825-517A-150
3	93	91.2	16	11	US-09-825-517A-75
4	92	90.2	16	11	US-09-825-517A-86
5	91	89.2	16	11	US-09-825-517A-59
6	91	89.2	16	11	US-09-825-517A-147
7	90	88.2	16	11	US-09-825-517A-67
8	89	87.3	16	11	US-09-825-517A-104
9	88	86.3	16	11	US-09-825-517A-76
10	88	86.3	16	11	US-09-825-517A-105
11	88	86.3	16	11	US-09-825-517A-139
12	87	85.3	16	11	US-09-825-517A-100
13	87	85.3	16	11	US-09-825-517A-130
14	86	84.3	16	11	US-09-825-517A-65
15	84	82.4	16	11	US-09-825-517A-56

16	84	82.4	16	11	US-09-825-517A-80	Sequence 80, Appl
17	83	81.4	16	11	US-09-825-517A-128	Sequence 128, App
18	82	80.4	16	11	US-09-825-517A-109	Sequence 109, App
19	82	80.4	16	11	US-09-825-517A-115	Sequence 115, App
20	82	80.4	16	11	US-09-825-517A-126	Sequence 126, App
21	82	80.4	16	11	US-09-825-517A-127	Sequence 127, App
22	81	79.4	16	11	US-09-825-517A-49	Sequence 49, Appl
23	81	79.4	16	11	US-09-825-517A-50	Sequence 50, Appl
24	81	79.4	16	11	US-09-825-517A-68	Sequence 68, Appl
25	81	79.4	16	11	US-09-825-517A-88	Sequence 88, Appl
26	81	79.4	16	11	US-09-825-517A-114	Sequence 114, App
27	81	79.4	16	11	US-09-825-517A-123	Sequence 123, App
28	81	79.4	16	11	US-09-825-517A-146	Sequence 146, App
29	81	79.4	16	11	US-09-825-517A-151	Sequence 151, App
30	80	78.4	16	11	US-09-825-517A-78	Sequence 78, Appl
31	80	78.4	16	11	US-09-825-517A-116	Sequence 116, App
32	80	78.4	16	11	US-09-825-517A-133	Sequence 133, App
33	80	78.4	16	11	US-09-825-517A-144	Sequence 144, App
34	79	77.5	16	11	US-09-825-517A-106	Sequence 106, App
35	79	77.5	16	11	US-09-825-517A-118	Sequence 118, App
36	79	77.5	16	11	US-09-825-517A-119	Sequence 119, App
37	78	76.5	16	11	US-09-825-517A-52	Sequence 52, Appl
38	78	76.5	16	11	US-09-825-517A-135	Sequence 135, App
39	77	75.5	16	11	US-09-825-517A-55	Sequence 55, Appl
40	77	75.5	16	11	US-09-825-517A-82	Sequence 82, Appl
41	77	75.5	16	11	US-09-825-517A-91	Sequence 91, Appl
42	77	75.5	16	11	US-09-825-517A-107	Sequence 107, App
43	77	75.5	16	11	US-09-825-517A-112	Sequence 112, App
44	77	75.5	16	11	US-09-825-517A-122	Sequence 122, App
45	77	75.5	16	11	US-09-825-517A-140	Sequence 140, App

ALIGNMENTS

RESULT 1
US-09-825-517A-137
; Sequence 137, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-137

Query Match 100.0%; Score 102; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.5e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEFFKSWQYCNIL 16
|||||
Db 1 DWCEFFKSWQYCNIL 16

RESULT 2
US-09-825-517A-150
; Sequence 150, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 150
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-150

Query Match 92.2%; Score 94; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 3.1e-06;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFFKQWFCNVL 16

RESULT 3

US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match 91.2%; Score 93; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 4.2e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFFKQWFCNVL 16

RESULT 4

US-09-825-517A-86
; Sequence 86, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-86

Query Match 90.2%; Score 92; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 5.8e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFFKQWFCNVL 16

RESULT 5

US-09-825-517A-59
; Sequence 59, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-59

Query Match 89.2%; Score 91; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 7.9e-06;
Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWCEFFKQWFCNVL 16
| | | | | | | | | | | | | | | |
Db 1 DWCEFFKQWFCNVL 16

RESULT 6

US-09-825-517A-147
; Sequence 147, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 16
; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-147

Query Match      89.2%; Score 91; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 7.9e-06;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
   ||||| ||||| :||
Db 1 DWCEFFKQWFCNVL 16

RESULT 7
US-09-825-517A-67
; Sequence 67, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-67

Query Match      88.2%; Score 90; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.1e-05;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
   ||||| ||||| ||||
Db 1 DWCEFFKQWNCNVL 16

RESULT 8
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      87.3%; Score 89; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 1.5e-05;
```

```
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
   ||||| ||||| ||||
Db 1 DWVCEFFKQWMCNVL 16

RESULT 9
US-09-825-517A-76
; Sequence 76, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 76
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-76

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
   ||||| ||||| ||||
Db 1 DWCEFFKQWNCNVL 16

RESULT 10
US-09-825-517A-105
; Sequence 105, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-105

Query Match      86.3%; Score 88; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2e-05;
Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCEFFKQWYCNIL 16
   ||||| ||||| ||||
Db 1 DWCEFFKQWMCNVL 16
```

RESULT 11
 US-09-825-517A-139
 ; Sequence 139, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 139
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-139

Query Match 86.3%; Score 88; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2e-05;
 Matches 13; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCEFFKSWQWYCNIL 16
 |||||:|||||
 Db 1 DWVCEYFKWLCNIL 16

RESULT 12
 US-09-825-517A-100
 ; Sequence 100, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 100
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-100

Query Match 85.3%; Score 87; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 2.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEFFKSWQWYCNIL 16
 |||||:|||||
 Db 1 DWVCELPKQWFCNIL 16

RESULT 13
 US-09-825-517A-130
 ; Sequence 130, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 130
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-130

Query Match 85.3%; Score 87; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 2.8e-05;
 Matches 12; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCEFFKSWQWYCNIL 16
 |||||:|||||
 Db 1 DWVCEWFKQWFCNML 16

RESULT 14
 US-09-825-517A-65
 ; Sequence 65, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 65
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 US-09-825-517A-65

Query Match 84.3%; Score 86; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 3.8e-05;
 Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 DWVCEFFKSWQWYCNIL 16
 |||||:|||||
 Db 1 DWVCELVKQWYCNIL 16

RESULT 15
 US-09-825-517A-56
 ; Sequence 56, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US/09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```

; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-56

```

```

Query Match      82.4%; Score 84; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 7.2e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

```

```

OY      1 DWVCEFFKSQWYCNIL 16
      ||||| ||:||||
Db      1 DWVCENFKAQWFCNAL 16

```

```

Search completed: September 8, 2004, 15:58:36
Job time : 43.85 secs

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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-137
Perfect score: 102
Sequence: 1 DMVCEFFKSQWYCNIL 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PCTUS COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	43	42.2	153	1	US-07-695-564-9
2	43	42.2	153	1	Sequence 9, Appli
3	43	42.2	272	4	Sequence 9, Appli
4	42.5	41.7	322	1	Sequence 6959, Ap
5	42.5	41.7	322	5	Sequence 36, Appl
6	42.5	41.7	425	1	Sequence 36, Appl
7	42.5	41.7	425	1	Sequence 69, Appl
8	42.5	41.7	425	1	Sequence 7, Appli
9	42.5	41.7	425	1	Sequence 13, Appl
10	42.5	41.7	425	1	Sequence 220, App
11	42.5	41.7	425	1	Sequence 7, Appli
12	42.5	41.7	425	1	Sequence 220, App
13	42.5	41.7	425	1	Sequence 7, Appli
14	42.5	41.7	425	2	Sequence 220, App
15	42.5	41.7	425	2	Sequence 220, App
16	42.5	41.7	425	2	Sequence 3, Appli
17	42.5	41.7	425	2	Sequence 7, Appli
18	42.5	41.7	425	2	Sequence 7, Appli
19	42.5	41.7	425	3	Sequence 57, Appl
20	42.5	41.7	425	3	Sequence 13, Appl
21	42.5	41.7	425	3	Sequence 220, App
22	42.5	41.7	425	3	Sequence 7, Appli
23	42.5	41.7	425	3	Sequence 220, App
24	42.5	41.7	425	3	Sequence 3, Appli
25	42.5	41.7	425	3	Sequence 220, App
26	42.5	41.7	425	3	Sequence 7, Appli
27	40	39.2	21	4	Sequence 27, Appli

Sequence 27, Appli
Sequence 21, Appli
Sequence 15, Appli
Sequence 18, Appli
Sequence 6, Appli
Sequence 6, Appli
Sequence 9, Appli
Sequence 4, Appli
Sequence 3, Appli
Sequence 3, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-07-695-564-9
; Sequence 9, Application US/07695564
; Patent No. 5310874
; GENERAL INFORMATION:
; APPLICANT: Tamura, Richard N.
; APPLICANT: Quaranta, Vito
; TITLE OF INVENTION: INTEGRIN ALPHA SUBUNIT CYTOPLASMIC
; TITLE OF INVENTION: DOMAIN POLYPEPTIDES, ANTIBODIES AND METHODS
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Thomas Fitting
; STREET: 11300 Sorrento Valley Road, Suite 200
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION NUMBER: US/07/695,564
; FILING DATE: 19910503
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
; REFERENCE/DOCKET NUMBER: SCRO377P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619-546-1555
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 153 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ANTI-SENSE: NO
; FRAGMENT TYPE: internal
; FEATURE:
; NAME/KEY: Region
; LOCATION: 1..153
; OTHER INFORMATION: /note= "SEQ ID NO:9 is the 153
; OTHER INFORMATION: amino acid sequence predicted from the product
; OTHER INFORMATION: which results from amplification of the mouse

```

; ; OTHER INFORMATION: ALPHA 3B CDNA with primers 2032/2033. "
; ; FEATURE:
; ; NAME/KEY: Domain
; ; LOCATION: 108..112
; ; OTHER INFORMATION:
; ; OTHER INFORMATION: /note= "The cytoplasmic sequence
; ; US-07-695-564-9 CDPFK begins at amino acid position 108. "

```

Query Match 42.2%; Score 43; DB 1; Length 153;
Best Local Similarity 46.7%; Pred. No. 29;
Matches 7; Conservative 2; Mismatches 6; Indels

QY	2	WVCEFFKSQWYCNIL	16
Db	106	WKCDFFKPTRYYRIM	120

```

RESULT 2
US-08-241-387-9
; Sequence 9, Application US/08241387
; Patent No. 589570
; GENERAL INFORMATION:
; APPLICANT: Tamura, Richard N.
; APPLICANT: Quaranta, Vito
; TITLE OF INVENTION: INTEGRIN ALPHA SUBUNIT CYTOPLASMIC
; TITLE OF INVENTION: DOMAIN POLYPEPTIDES, ANTIBODIES AND METHODS

```

US-08-241-387-9

Query Match 42.2%; Score 43; DB 1; Length 153;
Best Local Similarity 46.7%; Pred. No. 29;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

```

QY      2 WVCEFFKSQWYCNIL 16
          | | | | | | | |
Db     106 WKCDFFKPTRYYRIM 120

```

```

RESULT 3
US-09-328-352-6959
; Sequence 6959, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328.352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252

```

Query Match 42.2%; Score 43; DB 4; Length 272;
Best Local Similarity 50.0%; Pred. NO. 51;
Matches 6; Conservative 1; Mismatches 5; Indels

QY 2 WVCEFFKSQWYC 13
| | : | | |
Db 212 WAEVFLDNQWYC 223

```

RESULT 4
US-08-118-270-36
; Sequence 36, Application US/08118270
; Patent No. 5508384
; GENERAL INFORMATION:
; APPLICANT: Murphy, Randall B.
; APPLICANT: Schuster, David I.
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:

```

```

/
/ CORRELATION: 0.41153
/ OTHER INFORMATION: /note= "SEQ ID NO:9 is the 153
/ OTHER INFORMATION: amino acid sequence predicted from the product
/ OTHER INFORMATION: which results from amplification of the mouse
/ FEATURE:
/ NAME/KEY: Domain
/ LOCATION: 108..112
/ OTHER INFORMATION: /note= "The cytoplasmic sequence
/ OTHER INFORMATION: CDPFK begins at amino acid position 108."
/

```

```

; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 322 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-118-270-36

Query Match      41.7%; Score 42.5; DB 1; Length 322;
Best Local Similarity 35.0%; Pred. No. 71;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKQWYCN 15
Db 62 DWQFGSELRCFVTAIFYCNM 81

RESULT 5
PCT-US93-08528-36
; Sequence 36, Application PC/TUS9308528
; GENERAL INFORMATION:
; APPLICANT: New York University
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08528
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY=2 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 322 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-08528-36

Query Match      41.7%; Score 42.5; DB 5; Length 322;
Best Local Similarity 35.0%; Pred. No. 71;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKQWYCN 15
Db 62 DWQFGSELRCFVTAIFYCNM 81

RESULT 6
US-07-657-769B-69

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; Sequence 69, Application US/07657769B
; Patent No. 5256766
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; TITLE OF INVENTION: RECOMBINANT RECEPTOR AND RELATED
; TITLE OF INVENTION: PHARMACEUTICALS
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IRELL & MANELLA
; STREET: 545 MIDDLEFIELD ROAD, SUITE 200
; CITY: MENLO PARK
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/657,769B
; FILING DATE: 19910219
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 2000-0502.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-327-7250
; TELEFAX: 415-327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 69:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-657-769B-69

Query Match      41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKQWYCN 15
Db 167 DWQFGSELRCFVTAIFYCNM 186

RESULT 7
US-08-097-938-7
; Sequence 7, Application US/08097938
; Patent No. 5629174
; GENERAL INFORMATION:
; APPLICANT: SUNDELIN, JOHAN
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR AND ITS
; TITLE OF INVENTION: AGONISTS AND ANTAGONISTS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
; CITY: Washington, D.C.
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/097,938
; FILING DATE: 26-JUL-1993
; CLASSIFICATION: 435

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ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22803-20006.00
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-097-938-7

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

Qy 1 DW-----VCEFFKSQWYCN1 15
|| : : : : :
Db 161 DWQFGSELCRFVTAIFYCNM 186

RESULT 8
US-08-313-553-13
Sequence 13, Application US/08313553
Patent No. 5641850
GENERAL INFORMATION:
APPLICANT: TURNER, George J.
APPLICANT: BETLACH, Mary C.
TITLE OF INVENTION: EXPRESSION OF HETEROLOGOUS POLYPEPTIDES
TITLE OF INVENTION: IN HALOBACTERIA
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: Walter H. Dreger
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/313,553
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/038,662
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-57669/WHd
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-313-553-13

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

Qy 1 DW-----VCEFFKSQWYCN1 15
|| : : : : :
Db 161 DWQFGSELCRFVTAIFYCNM 180

RESULT 9
US-07-789-184-220
Sequence 220, Application US/07789184
Patent No. 5688768
GENERAL INFORMATION:
APPLICANT: COUGHLIN, SHAUN R.
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
TITLE OF INVENTION: RELATED PHARMACEUTICALS
NUMBER OF SEQUENCES: 223
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/789,184
FILING DATE: 19911107
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22000-20502.20
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 34-0154
INFORMATION FOR SEQ ID NO: 220:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-789-184-220

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

Qy 1 DW-----VCEFFKSQWYCN1 15
|| : : : : :
Db 167 DWQFGSELCRFVTAIFYCNM 186

RESULT 10
US-08-476-000-7
Sequence 7, Application US/08476000
Patent No. 5716789
GENERAL INFORMATION:
APPLICANT: SUNDELIN, JOHAN
APPLICANT: SCARBOROUGH, ROBERT M.
TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS
TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20006-1812

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/476,000
FILING DATE: 07-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/390,301
FILING DATE: 25-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADLER, REID G.
REGISTRATION NUMBER: 30,988
REFERENCE/DOCKET NUMBER: 2803-0006.20
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-476-000-7

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
Db 167 DWQFGSELRCFVTAIFYCNM 186

RESULT 11
US-08-475-263-220
Sequence 220, Application US/08475263
Patent No. 5759994
GENERAL INFORMATION:
APPLICANT: COUGHLIN, SHAUN R.
TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND RELATED PHARMACEUTICALS
TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND RELATED PHARMACEUTICALS
NUMBER OF SEQUENCES: 223
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave., NW
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,263
FILING DATE: 07-JUN-1995
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22000-20502.03
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 220:
SEQUENCE CHARACTERISTICS:

LENGTH: 425 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-475-263-220

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
Db 167 DWQFGSELRCFVTAIFYCNM 186

RESULT 12
US-08-472-840-7
Sequence 7, Application US/08472840
Patent No. 5763575
GENERAL INFORMATION:
APPLICANT: SUNDELIN, JOHAN
TITLE OF INVENTION: RECOMBINANT C140 RECEPTOR, ITS AGONISTS
TITLE OF INVENTION: AND ANTAGONISTS, AND NUCLEIC ACIDS ENCODING THE RECEPTOR
NUMBER OF SEQUENCES: 63
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 Pennsylvania Ave. N.W., Ste. 5500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/472,840
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/390,301
FILING DATE: 25-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: ADLER, REID G.
REGISTRATION NUMBER: 30,988
REFERENCE/DOCKET NUMBER: 2803-0006.20
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 425 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-472-840-7

Query Match 41.7%; Score 42.5; DB 1; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels 5; Gaps 1;

QY 1 DW-----VCEFFKSQWYCN 15
Db 167 DWQFGSELRCFVTAIFYCNM 186

RESULT 13
US-08-485-886-220
Sequence 220, Application US/08485886
Patent No. 5798248

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; APPLICATION NUMBER: US/08/477,362
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-477-362-220

Query Match          41.7%; Score 42.5; DB 2; Length 425;
Best Local Similarity 35.0%; Pred. No. 94;
Matches 7; Conservative 4; Mismatches 4; Indels

QY      1 DW-----VCEFFKSOWYCN I 15
        |||         |::|||:
Db      167 DWQFGSELRFVTAAFYCNM 186

RESULT 15
US-08-477-134-220
; Sequence 220, Application US/08477134
; Patent No. 5856448
; GENERAL INFORMATION:
; APPLICANT: COUGHLIN, SHAUN R.
; APPLICANT: SCARBOROUGH, ROBERT M.
; TITLE OF INVENTION: RECOMBINANT THROMBIN RECEPTOR AND
; TITLE OF INVENTION: RELATED PHARMACEUTICALS
; NUMBER OF SEQUENCES: 223
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,134
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,184
; FILING DATE: 07-NOV-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.02
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 813-5600
; TELEFAX: (415) 494-0792
; TELEX: 34-0154
; INFORMATION FOR SEQ ID NO: 220:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 425 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

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Search completed: September 8, 2004, 14:31:50
Job time : 14.3 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-136
Perfect score: 104
Sequence: 1 DWVCNLFKNQWFCDDQ 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764
Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*

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- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
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- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
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- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
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- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
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- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	103	99.0	16	11	US-09-825-517A-39
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4	100	96.2	16	11	US-09-825-517A-131
5	97	93.3	16	11	US-09-825-517A-38
6	97	93.3	16	11	US-09-825-517A-42
7	97	93.3	16	11	US-09-825-517A-43
8	97	93.3	16	11	US-09-825-517A-129
9	96	92.3	16	11	US-09-825-517A-77
10	96	92.3	16	11	US-09-825-517A-99
11	95	91.3	16	11	US-09-825-517A-53
12	95	91.3	16	11	US-09-825-517A-81
13	95	91.3	16	11	US-09-825-517A-83
14	94	90.4	16	11	US-09-825-517A-37
15	94	90.4	16	11	US-09-825-517A-52

16	94	90.4	16	11	US-09-825-517A-58	Sequence 58, Appl
17	94	90.4	16	11	US-09-825-517A-62	Sequence 62, Appl
18	94	90.4	16	11	US-09-825-517A-74	Sequence 74, Appl
19	94	90.4	16	11	US-09-825-517A-120	Sequence 120, Appl
20	94	90.4	16	11	US-09-825-517A-124	Sequence 124, Appl
21	94	90.4	16	11	US-09-825-517A-145	Sequence 145, Appl
22	93	89.4	16	11	US-09-825-517A-40	Sequence 40, Appl
23	93	89.4	16	11	US-09-825-517A-45	Sequence 45, Appl
24	93	89.4	16	11	US-09-825-517A-47	Sequence 47, Appl
25	93	89.4	16	11	US-09-825-517A-48	Sequence 48, Appl
26	93	89.4	16	11	US-09-825-517A-57	Sequence 57, Appl
27	93	89.4	16	11	US-09-825-517A-121	Sequence 121, Appl
28	93	89.4	16	11	US-09-825-517A-134	Sequence 134, Appl
29	92	88.5	16	11	US-09-825-517A-50	Sequence 50, Appl
30	92	88.5	16	11	US-09-825-517A-89	Sequence 89, Appl
31	91	87.5	16	11	US-09-825-517A-46	Sequence 46, Appl
32	91	87.5	16	11	US-09-825-517A-132	Sequence 132, Appl
33	90	86.5	16	11	US-09-825-517A-71	Sequence 71, Appl
34	90	86.5	16	11	US-09-825-517A-108	Sequence 108, Appl
35	89	85.6	16	11	US-09-825-517A-61	Sequence 61, Appl
36	89	85.6	16	11	US-09-825-517A-64	Sequence 64, Appl
37	89	85.6	16	11	US-09-825-517A-66	Sequence 66, Appl
38	89	85.6	16	11	US-09-825-517A-69	Sequence 69, Appl
39	89	85.6	16	11	US-09-825-517A-84	Sequence 84, Appl
40	89	85.6	16	11	US-09-825-517A-98	Sequence 98, Appl
41	89	85.6	16	11	US-09-825-517A-119	Sequence 119, Appl
42	89	85.6	16	11	US-09-825-517A-128	Sequence 128, Appl
43	87	83.7	16	11	US-09-825-517A-41	Sequence 41, Appl
44	87	83.7	16	11	US-09-825-517A-79	Sequence 79, Appl
45	87	83.7	16	11	US-09-825-517A-92	Sequence 92, Appl

ALIGNMENTS

RESULT 1
US-09-825-517A-136
; Sequence 136, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMERYONIC
; TITLE OF INVENTION: ANTIGEN (CEA)
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 136
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-136

Query Match 100.0%; Score 104; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 5.8e-08;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDQ 16

RESULT 2
US-09-825-517A-39
; Sequence 39, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 39
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-39

Query Match 99.0%; Score 103; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 8.1e-08;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
 Db 1 DWICNLFKNQWFCDDQ 16

RESULT 3

US-09-825-517A-73
 ; Sequence 73, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 73
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-73

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 2.1e-07;
 Matches 15; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
 Db 1 DWICNLFKNQWFCDDQ 16

RESULT 4

US-09-825-517A-131
 ; Sequence 131, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24

; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 131
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 ; US-09-825-517A-131

Query Match 96.2%; Score 100; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 2.1e-07;
 Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
 Db 1 DWICNLFKNQWFCDDQ 16

RESULT 5

US-09-825-517A-38
 ; Sequence 38, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 38
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ; US-09-825-517A-38

Query Match 93.3%; Score 97; DB 11; Length 16;
 Best Local Similarity 93.8%; Pred. No. 5.6e-07;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
 Db 1 DWICNLFKNQWFCDDQ 16

RESULT 6

US-09-825-517A-42
 ; Sequence 42, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 42
 ; LENGTH: 16
 ; TYPE: PRT

```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-42

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 7
US-09-825-517A-43
; Sequence 43, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-43

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDQ 16

RESULT 8
US-09-825-517A-129
; Sequence 129, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 129
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-129

Query Match          93.3%; Score 97; DB 11; Length 16;
Best Local Similarity 93.8%; Pred. No. 5.6e-07;
```

```
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDDV 16

RESULT 9
US-09-825-517A-77
; Sequence 77, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 77
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-77

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.7e-07;
Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 DWVCNLFKNQWFCDSL 16

RESULT 10
US-09-825-517A-99
; Sequence 99, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 99
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-99

Query Match          92.3%; Score 96; DB 11; Length 16;
Best Local Similarity 87.5%; Pred. No. 7.7e-07;
Matches 14; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 DWVCNLFKNQWFCDDQ 16
Db 1 NWVCNLFKNQWFCDEM 16
```

RESULT 11
 US-09-825-517A-53
 ; Sequence 53, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 53
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ;
 US-09-825-517A-53

Query Match 91.3%; Score 95; DB 11; Length 16;
 Best Local Similarity 93.3%; Pred. No. 1.1e-06;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDO 15
 |||||
 Db 1 DWVCNLFKNQWFCDK 15

RESULT 12
 US-09-825-517A-81
 ; Sequence 81, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 81
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ;
 US-09-825-517A-81

Query Match 91.3%; Score 95; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.1e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDO 16
 |||||
 Db 1 DWVCNLFKNQWFCDA 16

RESULT 13
 US-09-825-517A-83
 ; Sequence 83, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; TITLE OF INVENTION: ANTIGEN (CEA)
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 83
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ;
 US-09-825-517A-83

Query Match 91.3%; Score 95; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.1e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDO 16
 |||||
 Db 1 DWVCNLFKNQWFCDTL 16

RESULT 14
 US-09-825-517A-37
 ; Sequence 37, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 37
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: CEA binding polypeptide
 ;
 US-09-825-517A-37

Query Match 90.4%; Score 94; DB 11; Length 16;
 Best Local Similarity 87.5%; Pred. No. 1.1e-06;
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDO 16
 |||||
 Db 1 DWVCNLFKNQWFCDL 16

RESULT 15
 US-09-825-517A-52
 ; Sequence 52, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03

```
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-52
```

```
Query Match          90.4%; Score 94; DB 11; Length 16;
Best Local Similarity 100.0%; Pred.No. 1.5e-06;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 DWVCNLFKNQWFCD 14
        |||||
Db       1 DWVCNLFKNQWFCD 14
```

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Search completed: September 8, 2004, 15:58:36
Job time : 44.85 secs
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OM protein - protein search, using sw model

Run on: September 8, 2004, 12:58:43 ; Search time 13.3 Seconds
(without alignments)
62.106 Million cell updates/sec

Title: US-09-825-517A-136
Perfect score: 104
Sequence: 1 DNVCNLFKNQWFCDDQM 16

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/iaa/5A COMB.pep.*
2: /cgn2_6/prodata/2/iaa/5B COMB.pep.*
3: /cgn2_6/prodata/2/iaa/6A COMB.pep.*
4: /cgn2_6/prodata/2/iaa/6B COMB.pep.*
5: /cgn2_6/prodata/2/iaa/6C COMB.pep.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	44.2	2474	4	US-08-265-967C-3
2	46	44.2	2474	4	US-08-305-790B-4
3	45	43.3	478	4	US-09-137-223A-2
4	45	43.3	480	2	US-08-328-488-8
5	45	43.3	480	4	US-09-299-689A-8
6	45	43.3	480	4	US-09-702-705-336
7	45	43.3	480	4	US-09-736-457-336
8	45	43.3	480	4	US-09-614-124B-336
9	45	43.3	480	4	US-09-671-325-336
10	45	43.3	480	4	US-09-589-184-336
11	44	42.3	21	4	US-09-337-227C-27
12	44	42.3	21	4	US-09-723-251A-27
13	44	42.3	215	3	US-09-131-028A-3
14	44	42.3	215	3	US-09-131-028A-13
15	44	42.3	612	4	US-09-352-991A-17516
16	43.5	41.8	190	1	US-08-816-241-1
17	43.5	41.8	190	3	US-09-128-395-1
18	42	40.4	326	2	US-08-671-978A-7
19	41	39.4	582	3	US-08-194-560-2
20	41	39.4	3033	1	US-07-925-695-8
21	41	39.4	3033	1	US-07-925-695-9
22	40.5	38.9	989	2	US-08-070-301-14
23	40	38.5	51	4	US-09-740-510-2
24	40	38.5	109	2	US-08-527-044-2
25	40	38.5	109	3	US-09-013-780-2
26	40	38.5	3033	1	US-07-925-695-5
27	39.5	38.0	113	4	US-09-530-903C-4

28 39.5 38.0 286 4 US-09-328-352-5022 Sequence 5022, Ap
29 39 37.5 80 4 US-09-673-395A-447 Sequence 417, App
30 39 37.5 123 1 US-08-530-010-25 Sequence 25, Appl
31 39 37.5 123 2 US-08-484-101B-25 Sequence 25, Appl
32 39 37.5 123 3 US-08-714-524D-25 Sequence 25, Appl
33 39 37.5 131 2 US-08-834-655-9 Sequence 9, Appl
34 39 37.5 131 3 US-08-834-033A-10 Sequence 10, Appl
35 39 37.5 131 3 US-09-363-574-9 Sequence 9, Appl
36 39 37.5 131 4 US-09-363-526-9 Sequence 9, Appl
37 39 37.5 219 4 US-09-439-261-20 Sequence 19, Appl
38 39 37.5 219 4 US-09-227-613-19 Sequence 19, Appl
39 39 37.5 240 2 US-08-114-555A-8 Sequence 8, Appl
40 39 37.5 240 3 US-08-559-397A-14 Sequence 14, Appl
41 39 37.5 287 4 US-09-439-261-13 Sequence 13, Appl
42 39 37.5 287 4 US-09-227-613-14 Sequence 14, Appl
43 39 37.5 288 4 US-09-439-261-14 Sequence 14, Appl
44 39 37.5 288 4 US-09-439-261-16 Sequence 16, Appl
45 39 37.5 288 4 US-09-439-261-18 Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-08-265-967C-3
; Sequence 3, Application US/08265967C
; Patent No. 6476200
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUNT-BROWAGE, HEDIYE
; APPLICANT: LUI, MARY
; APPLICANT: TEMPEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/265,967C
; FILING DATE: 27-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.46363
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9299
; TELEX: 197430 BBMB UT
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-265-967C-3

Query Match 44.2%; Score 46; DB 4; Length 2474;
Best Local Similarity 54.5%; Pred.No. 2.5e+02;
Matches 6; Conservative 3; Indels 0; Gaps 0;

```
QY      5 NLKKNWFCDQ 15
      1223 NILKNWYCSQ 1233

US-08-305-790B-4
; Sequence 4, Application US/08305790B
; Patent No. 6492106
; GENERAL INFORMATION:
; APPLICANT: SABATINI, DAVID M.
; APPLICANT: ERDJUMENT-BROWAGE, HEDIVE
; APPLICANT: LUI, MARY
; APPLICANT: TEMEST, PAUL
; APPLICANT: SNYDER, SOLOMON H.
; TITLE OF INVENTION: MAMMALIAN PROTEINS THAT BIND TO FKBP12
; TITLE OF INVENTION: IN A RAPAMYCIN-DEPENDENT FASHION
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BANNER & ALLEGRETTI, LTD
; STREET: 1001 G STREET, N.W., 11TH FLOOR
; CITY: WASHINGTON
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/305,790B
; FILING DATE:
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/265,967
; FILING DATE: 27-JUN-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: KAGAN, SARAH A.
; REGISTRATION NUMBER: 32,141
; REFERENCE/DOCKET NUMBER: 01107.47225
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-508-9100
; TELEFAX: 202-508-9239
; TELEX: 197430 BMB UT
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2474 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Saccharomyces cerevisiae
; US-08-305-790B-4

Query Match 44.2%; Score 46; DB 4; Length 2474;
Best Local Similarity 54.5%; Pred. No. 2.5e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      5 NLKKNWFCDQ 15
      1223 NILKNWYCSQ 1233

US-09-137-223A-2
; Sequence 2, Application US/09137223A
; Patent No. 6420525
; GENERAL INFORMATION:
; APPLICANT: Yee, David P
; APPLICANT: Deisher, Theresa A
; TITLE OF INVENTION: TESTIS-SPECIFIC TRANSCRIPTION FACTOR
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; TITLE OF INVENTION: ZGCL-1
; FILE REFERENCE: 97-18
; CURRENT APPLICATION NUMBER: US/09/137,223A
; CURRENT FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 06/056,130
; PRIOR FILING DATE: 1997-08-19
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 478
; TYPE: PRT
; ORGANISM: homo sapiens
; US-09-137-223A-2

Query Match 43.3%; Score 45; DB 4; Length 478;
Best Local Similarity 41.7%; Pred. No. 62;
Matches 5; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY      1 DWCVNLFKNQWF 12
      322 EWLSSVYKQQWF 333

US-08-828-488-8
; Sequence 8, Application US/08828488
; Patent No. 5925521
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/828,488
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
; US-08-828-488-8

Query Match 43.3%; Score 45; DB 2; Length 480;
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Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
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400 DMACNFMGDEWFDVSL 415

Db

RESULT 5

US-09-299-689A-8
; Sequence 8, Application US/09299689A
; Patent No. 6379913
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Hawkins, Phillip R.
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Goli, Surya K.
; TITLE OF INVENTION: NOVEL HUMAN SERINE
; TITLE OF INVENTION: CARBOXYPEPTIDASE
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/299,689A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/828,488
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0241 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 480 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 190283
US-09-299-689A-8

Query Match 43.3%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
| | | | | : | | :
400 DMACNFMGDEWFDVSL 415

Db

RESULT 6

US-09-702-705-336
; Sequence 336, Application US/09702705
; Patent No. 6504010
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C14
; CURRENT APPLICATION NUMBER: US/09/702,705
; CURRENT FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 1833
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-702-705-336

Query Match 43.3%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
| | | | | : | | :
400 DMACNFMGDEWFDVSL 415

Db

RESULT 7

US-09-736-457-336
; Sequence 336, Application US/09736457
; Patent No. 6509448
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aljun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-336

Query Match 43.3%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 DWVCNLFKNQWFCDDQ 16
| | | | | : | | :
400 DMACNFMGDEWFDVSL 415

Db

RESULT 8

US-09-614-124B-336
; Sequence 336, Application US/09614124B
; Patent No. 6630574
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.

; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C9
; CURRENT APPLICATION NUMBER: US/09/614,124B
; CURRENT FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 1668
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-614-124B-336

Query Match 43.3%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
| | | | | : | | | :
Db 400 DMACNFMGDEWFVDSL 415

RESULT 9
US-09-671-325-336
; Sequence 336, Application US/09671325
; Patent No. 6667154
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C12
; CURRENT APPLICATION NUMBER: US/09/671,325
; CURRENT FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 1825
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-671-325-336

Query Match 43.3%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
| | | | | : | | | :
Db 400 DMACNFMGDEWFVDSL 415

RESULT 10
US-09-589-184-336
; Sequence 336, Application US/09589184
; Patent No. 6686447
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary

; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.478C8
; CURRENT APPLICATION NUMBER: US/09/589,184
; CURRENT FILING DATE: 2000-06-05
; NUMBER OF SEQ ID NOS: 827
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 336
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-589-184-336

Query Match 43.3%; Score 45; DB 4; Length 480;
Best Local Similarity 37.5%; Pred. No. 62;
Matches 6; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Qy 1 DWVCNLFKNQWFCDDQ 16
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Db 400 DMACNFMGDEWFVDSL 415

RESULT 11
US-09-337-227C-27
; Sequence 27, Application US/09337227C
; Patent No. 6420518
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.
; APPLICANT: Robinson, Iain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: PI071P2.rev
; CURRENT APPLICATION NUMBER: US/09/337,227C
; CURRENT FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/052,888
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6420518
US-09-337-227C-27

Query Match 42.3%; Score 44; DB 4; Length 21;
Best Local Similarity 42.3%; Pred. No. 3.3;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 2 WVCNLFKNQWFCDDQ 15
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Db 3 WVCNLFKNQWFCDDQ 16

RESULT 12
US-09-723-251A-27
; Sequence 27, Application US/09723251A
; Patent No. 6608028
; GENERAL INFORMATION:
; APPLICANT: Chen, Yvonne May-Yee
; APPLICANT: Clark, Ross G.
; APPLICANT: Cochran, Andrea G.
; APPLICANT: Lowman, Henry B.

```
; APPLICANT: Robinson, Jain C.A.F.
; APPLICANT: Skelton, Nicholas J.
; TITLE OF INVENTION: INSULIN-LIKE GROWTH FACTOR AGONIST MOLECULES
; FILE REFERENCE: P1071P2C1.2Rev
; CURRENT APPLICATION NUMBER: US/09/723,251A
; CURRENT FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: US 09/337,227
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/825,852
; PRIOR FILING DATE: 1997-04-04
; NUMBER OF SEQ ID NOS: 51
; SEQ ID NO 27
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized
; Patent No. 6608028
US-09-723-251A-27
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Query Match 42.3%; Score 44; DB 4; Length 21;
Best Local Similarity 42.9%; Pred. No. 3.3;
Matches 6; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
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Qy 2 WVCNLFKNQWFCDO 15
Db 3 WVCAGPLQWLCEK 16
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RESULT 13
US-09-131-028A-3
; Sequence 3, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-3
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Query Match 42.3%; Score 44; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 3.7;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
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Qy 2 WVCNLFKNQWFCDO 14
Db 12 WFCGLRGNEFFCE 24
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RESULT 14
US-09-131-028A-13
; Sequence 13, Application US/09131028A
; Patent No. 6287866
; GENERAL INFORMATION:
; APPLICANT: Abbott Laboratories
; APPLICANT: Mukerji, Pradip
; APPLICANT: Lemmel, Steven A.
; APPLICANT: Leonard, Amanda Eun-yeong
; APPLICANT: Chaudhary, Sunita
; TITLE OF INVENTION: BETA-CASEIN EXPRESSING CONSTRUCTS
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; FILE REFERENCE: 6004.US.P1
; CURRENT APPLICATION NUMBER: US/09/131,028A
; CURRENT FILING DATE: 1998-08-07
; PRIOR APPLICATION NUMBER: US 08/064,440
; PRIOR FILING DATE: 1993-05-21
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-131-028A-13
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Query Match 42.3%; Score 44; DB 3; Length 215;
Best Local Similarity 46.2%; Pred. No. 3.7;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
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Qy 2 WVCNLFKNQWFCDO 14
Db 12 WFCGLRGNEFFCE 24
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RESULT 15
US-09-252-991A-17516
; Sequence 17516, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17516
; LENGTH: 612
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17516
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Query Match 42.3%; Score 44; DB 4; Length 612;
Best Local Similarity 75.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
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Qy 2 WVCNLFKN 9
Db 54 WICNLFAN 61
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Search completed: September 8, 2004, 14:31:49
Job time : 14.3 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 8, 2004, 14:25:19 ; Search time 43.85 Seconds
(without alignments)
114.961 Million cell updates/sec

Title: US-09-825-517A-135

Perfect score: 99

Sequence: 1 DWCEFDKLOWVCNVL 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1298764 seqs, 315065143 residues

Total number of hits satisfying chosen parameters: 1298764

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 3: /cgn2_6/ptodata/1/pubaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubaa/PCTUS_PUBCOMB.pep.*
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- 8: /cgn2_6/ptodata/1/pubaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubaa/US10C_PUBCOMB.pep.*
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- 17: /cgn2_6/ptodata/1/pubaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	83	83.8	16	11	US-09-825-517A-49
3	83	83.8	16	11	US-09-825-517A-118
4	83	83.8	16	11	US-09-825-517A-133
5	83	83.8	16	11	US-09-825-517A-151
6	82	82.8	16	11	US-09-825-517A-107
7	80	80.8	16	11	US-09-825-517A-80
8	80	80.8	16	11	US-09-825-517A-88
9	79	79.8	16	11	US-09-825-517A-75
10	79	79.8	16	11	US-09-825-517A-104
11	79	79.8	16	11	US-09-825-517A-114
12	79	79.8	16	11	US-09-825-517A-147
13	78	78.8	16	11	US-09-825-517A-125
14	78	78.8	16	11	US-09-825-517A-137
15	78	78.8	16	11	US-09-825-517A-142

16	77.8	16	11	US-09-825-517A-82	Sequence 82, Appl
17	77.8	16	11	US-09-825-517A-112	Sequence 112, Appl
18	77.8	16	11	US-09-825-517A-122	Sequence 122, Appl
19	77.8	16	11	US-09-825-517A-140	Sequence 140, Appl
20	76.8	16	11	US-09-825-517A-67	Sequence 67, Appl
21	76.8	16	11	US-09-825-517A-76	Sequence 76, Appl
22	76.8	16	11	US-09-825-517A-86	Sequence 86, Appl
23	76.8	16	11	US-09-825-517A-101	Sequence 101, Appl
24	76.8	16	11	US-09-825-517A-139	Sequence 139, Appl
25	76.8	16	11	US-09-825-517A-150	Sequence 150, Appl
26	75.8	16	11	US-09-825-517A-54	Sequence 54, Appl
27	75.8	16	11	US-09-825-517A-59	Sequence 59, Appl
28	75.8	16	11	US-09-825-517A-60	Sequence 60, Appl
29	75.8	16	11	US-09-825-517A-105	Sequence 105, Appl
30	75.8	16	11	US-09-825-517A-138	Sequence 138, Appl
31	75.8	16	11	US-09-825-517A-143	Sequence 143, Appl
32	74.7	16	11	US-09-825-517A-106	Sequence 106, Appl
33	74.7	16	11	US-09-825-517A-115	Sequence 115, Appl
34	73.7	16	11	US-09-825-517A-65	Sequence 65, Appl
35	73.7	16	11	US-09-825-517A-141	Sequence 141, Appl
36	72.7	16	11	US-09-825-517A-78	Sequence 78, Appl
37	72.7	16	11	US-09-825-517A-91	Sequence 91, Appl
38	72.7	16	11	US-09-825-517A-130	Sequence 130, Appl
39	71.7	16	11	US-09-825-517A-70	Sequence 70, Appl
40	71.7	16	11	US-09-825-517A-100	Sequence 100, Appl
41	71.7	16	11	US-09-825-517A-127	Sequence 127, Appl
42	70.7	16	11	US-09-825-517A-18	Sequence 18, Appl
43	70.7	16	11	US-09-825-517A-23	Sequence 23, Appl
44	70.7	16	11	US-09-825-517A-33	Sequence 33, Appl
45	70.7	16	11	US-09-825-517A-56	Sequence 56, Appl

ALIGNMENTS

RESULT 1
US-09-825-517A-135
; Sequence 135, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Isaac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825.517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 135
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-135

Query Match 100.0%; Score 99; DB 11; Length 16;
Best Local Similarity 100.0%; Pred. No. 1.le-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 DWCEFDKLOWVCNVL 16
|||||
Db 1 DWCEFDKLOWVCNVL 16

RESULT 2
US-09-825-517A-49
; Sequence 49, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:

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; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-49

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCFEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCFEFLKQWQACNVL 16

```

```

RESULT 3
US-09-825-517A-118
; Sequence 118, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 118
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-118

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCFEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCFEFLKQWQACNVL 16

```

```

RESULT 4
US-09-825-517A-133
; Sequence 133, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24

```

```

; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 133
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-133

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCFEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCFEFDKQWQACNVL 16

```

```

RESULT 5
US-09-825-517A-151
; Sequence 151, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 151
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
US-09-825-517A-151

```

```

Query Match      83.8%; Score 83; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 2.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY 1 DWCFEFDKLOWVCNVL 16
   |||||:|||||
DB 1 DWCFEFLKQWQACNVL 16

```

```

RESULT 6
US-09-825-517A-107
; Sequence 107, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; APPLICANT: Ladner, Robert C
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 09/541,345
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 107
; LENGTH: 16
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-107

Query Match      82.8%; Score 82; DB 11; Length 16;
Best Local Similarity 68.8%; Pred. No. 3.2e-05;
Matches 11; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEYAKQWMCNVL 16

RESULT 7
US-09-825-517A-80
; Sequence 80, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 80
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-80

Query Match      80.8%; Score 80; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 6.3e-05;
Matches 13; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEFIKQWMCNVL 16

RESULT 8
US-09-825-517A-88
; Sequence 88, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 88
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-88

Query Match      80.8%; Score 80; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 6.3e-05;

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEYDKQWMCNVL 16

Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEYDKQWMCNVL 16

RESULT 9
US-09-825-517A-75
; Sequence 75, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-75

Query Match      79.8%; Score 79; DB 11; Length 16;
Best Local Similarity 81.2%; Pred. No. 8.8e-05;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEFFKQWMCNVL 16

RESULT 10
US-09-825-517A-104
; Sequence 104, Application US/09825517A
; Publication No. US20030203415A1
; GENERAL INFORMATION:
; APPLICANT: Rondon, Issac J
; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
; FILE REFERENCE: DYX-016.1 (3421.1005-001)
; CURRENT APPLICATION NUMBER: US/09/825,517A
; CURRENT FILING DATE: 2003-03-24
; PRIOR FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 151
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 104
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CEA binding polypeptide
US-09-825-517A-104

Query Match      79.8%; Score 79; DB 11; Length 16;
Best Local Similarity 75.0%; Pred. No. 8.8e-05;
Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
Db 1 DWVCEFFKQWMCNVL 16

```

RESULT 11
 US-09-825-517A-114
 ; Sequence 114, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 114
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-114

Query Match 79.8%; Score 79; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 8.8e-05;
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
 ||||| :|||
 Db 1 DWVCEFSKVQWYCNPL 16

RESULT 12
 US-09-825-517A-147
 ; Sequence 147, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 147
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-147

Query Match 79.8%; Score 79; DB 11; Length 16;
 Best Local Similarity 81.2%; Pred. No. 8.8e-05;
 Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
 ||||| :|||
 Db 1 DWVCEFIKQWFCNVL 16

RESULT 13
 US-09-825-517A-125
 ; Sequence 125, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C

; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 125
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-125

Query Match 78.8%; Score 78; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 0.00012;
 Matches 12; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
 ||||| :|||
 Db 1 DWVCEWLKQWACNVL 16

RESULT 14
 US-09-825-517A-137
 ; Sequence 137, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03
 ; NUMBER OF SEQ ID NOS: 151
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 137
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic 16-mer microprotein analogue
 US-09-825-517A-137

Query Match 78.8%; Score 78; DB 11; Length 16;
 Best Local Similarity 75.0%; Pred. No. 0.00012;
 Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 DWVCEFDKLOWVCNVL 16
 ||||| :|||
 Db 1 DWVCEFFKQWYCNIL 16

RESULT 15
 US-09-825-517A-142
 ; Sequence 142, Application US/09825517A
 ; Publication No. US20030203415A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rondon, Issac J
 ; APPLICANT: Ladner, Robert C
 ; TITLE OF INVENTION: BINDING PEPTIDES FOR CARCINOEMBRYONIC
 ; FILE REFERENCE: DYX-016.1 (3421.1005-001)
 ; CURRENT APPLICATION NUMBER: US/09/825,517A
 ; CURRENT FILING DATE: 2003-03-24
 ; PRIOR APPLICATION NUMBER: US 09/541,345
 ; PRIOR FILING DATE: 2000-04-03